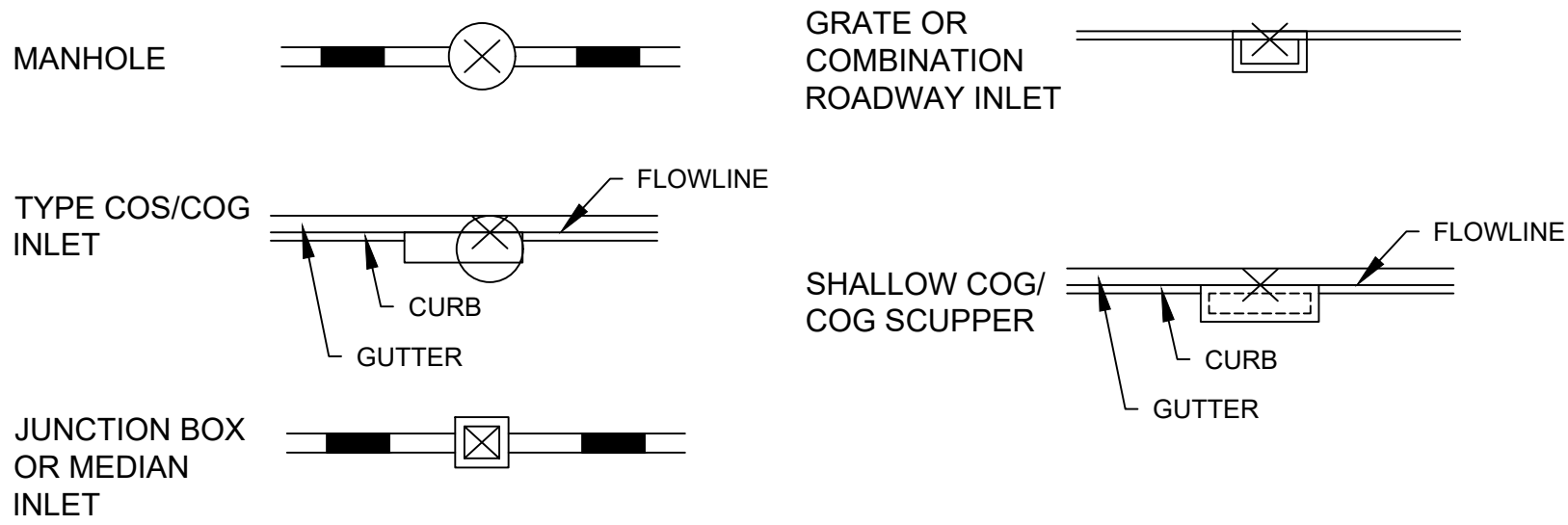


ABBREVIATIONS					
ABAN.	Abandoned	LOD	Limit of Disturbance	SSMH	Sewer Manhole
A.A.S.H.T.O.	American Association of State Highway Transportation Officials	LOW	Limit of Work	STA.	Station
APPROX.	Approximate	LP	Low Point	STD.	Standard
ASTM	American Society for Testing and Materials	LT	Left	SO.	Single Opening
B or B/L	Baseline	LVC	Length of Vertical Curve	S.Y.	Square Yards
BIT.	Bituminous	Maint.	Maintenance	SWM	Stormwater Management
BOA	Beginning of Alignment	MH	Manhole	SW	Sidewalk
BVCE	Beginning of Vertical Curve Elevation	MAX.	Maximum	T	Tangent
BVCS	Beginning of Vertical Curve Station	MCDPS	Montgomery County Department of Permitting Services	T or Tele.	Telephone
BLDG..	Building	MOD.	Modified	TBA	To Be Abandoned
BOT.	Bottom	MIN.	Minimum	TCE	Temporary Construction Easement
C.A.	Center of Curve	M-NCPPC	Maryland-National Capital Park and Planning Commission	T.C.P.	Terra Cotta Pipe
C or C/L	Centerline	N	North	TPF	Tree Protection Fence
C.I.P.	Cast Iron Pipe	NAD	North American Datum	T.S.	Top of Structure Elevation
C.M.P.	Corrugated Metal Pipe	NAVD	North American Vertical Datum	TRAV.	Traverse
C.O.	Cleanout	NB	Northbound	TYP.	Typical
COMB.	Combination	NE	Northeast	UG	Underground
CONC.	Concrete	NO.	Number	UNK.	Unknown
CONSTR.	Construction	N.T.S. or NTS	Not To Scale	U.P.	Utility Pole
CPI	Curve Point of Intersection	O.C.	On Center	VAR.	Varies
C.P.P.	Corrugated Polyethylene Pipe	PVMT.	Pavement	V.C.L.	Vertical Curve Length
CRZ	Critical Root Zone	PED.	Pedestrian	W	Water
D.B.H.	Diameter Breast Height	P.C.	Point of Curvature	W	West
DC	Degree of Curve	P.C.C.	Point of Compound Curve	W.B. or WB	Westbound
DIA.	Diameter	P/C	Point of Crown	WHC	Water House Connection
D.O.T. or DOT	Department Of Transportation	PE	Perpetual Easement	WM	Water Meter
D.P.W. or DPW	Department of Public Works	PGA	Point of Grade Application	WSSC	Washington Suburban Sanitary Commission
D.H.V.	Design Hour Volume	P/GE	Profile Grade Elevation	W/O	Without
DWS	Detectable Warning Surface	P.G.E.	Profile Ground Elevation	YR	Year
D.I.	Drop Inlet	P.G.L.	Profile Grade Line		
D.I.	Ductile Iron	P/GL	Profile Ground Line		
D.O.	Double Opening	P/R	Point of Rotation		
E	East	P.I.	Point of Intersection		
Elec.	Electric	P.O.C.	Point on Curve		
EA.	Each	P.O.T.	Point on Tangent		
EB.	Eastbound	PROP.	Proposed		
EB	Electric Box	P.S.F.	Pounds per Square Foot		
EM	Electric Meter	PT.	Point		
ELEV. or EL..	Elevation	P.T.	Point of Tangency		
E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe	P.V.C.	Point of Vertical Curve		
ES	End Section	PVC	Polyvinyl Chloride		
EVCE	End of Vertical Curve Elevation	PVI	Point of Vertical Intersection		
EVCS	End of Vertical Curve Station	R	Radius		
EX. or EXIST.	Existing	RET. WALL	Retaining Wall		
FT	Foot or Feet	RP	Root Pruning		
F or FL	Flowline	RT	Right		
FWD	Forward	RW or R/W	Right of Way		
G	Gas	R.C.P.	Reinforced Cement Pipe		
GM	Gas Meter	R.C.C.P.	Reinforced Cement Concrete Pipe		
Guy	Guy Wire	SIG.	Signal Pole		
HBX	Handbox	SHA. or S.H.A.	State Highway Administration		
H.D.P.E.	High-Density Polyethylene	S	South		
H.E.R.C.P.	Horizontal Elliptical Reinforced Concrete Pipe	S or SS or SAN.	Sanitary Sewer		
HGL	Hydraulic Grade Line	SB	Southbound		
HP	High Point	S.D.	Storm Drain		
HMA	Hot Mix Asphalt	SDP	Shrub Deer Protection		
HT	Height	S.E.	Superelevation		
IN	Inch	SF	Silt Fence		
INV	Invert	SFOP	Silt Fence On Pavement		
L	Length	SF	Square Feet		
LANDSC.	Landscaped	SHC	Sewer House Connection		
L.F.	Linear Feet	SSD	Stopping Sight Distance		
		SSF	Super Silt Fence		

LEGEND			
	ELECTRIC BOX		SPOT ELEVATION
	ELECTRIC MANHOLE		WIRE FENCE / CHAIN LINK FENCE
	ELECTRIC METER		INDEX CONTOUR
	HANDBOX		INTERVAL CONTOUR
	CLEAN OUT		OVERHEAD WIRES
	MAIL BOX		ABANDONED GAS LINE
	GAS MANHOLE		EXISTING GAS
	GAS METER		EXISTING ELECTRIC
	GAS VALVE		EXISTING TELEPHONE
	WATER MANHOLE		EXISTING SANITARY SEWER
	WATER VALVE		EXISTING CABLE TV
	WATER METER		EXISTING FIRE LINE
	FIRE HYDRANT		EXISTING FIBER OPTIC
	SANITARY MANHOLE		EXISTING WATER
	STORM DRAIN MANHOLE		PROPERTY LINE
	TELEPHONE MANHOLE		EXISTING RIGHT OF WAY
	TELEPHONE RISER		TOE OF FILL
	TV (CABLE) RISER		TOP OF CUT
	UNKNOWN MANHOLE		LIMIT OF DISTURBANCE
	SIGN		TEMPORARY CONSTRUCTION EASEMENT
	TREE		REVERTIBLE SLOPE EASEMENT
	HEDGE/BUSHES		PERPETUAL EASEMENT
	TRAVERSE POINT		WOODEN RAILING / WOOD FENCE
	DETECTABLE WARNING SURFACE (DWS)		CURB AND GUTTER
	EXISTING LIGHT POLE		
	EXISTING UTILITY POLE		
	EXISTING GUY WIRE		
	EXISTING UTILITY POLE WITH PROPOSED LEASE LIGHT		
	PROPOSED PEDESTRIAN LIGHT POLE		
	PROPOSED UTILITY POLE		
	PROPOSED UTILITY POLE WITH PROPOSED LEASE LIGHT		
	PROPOSED SIGNAL POLE		

DRAINAGE STRUCTURE STAKEOUT LOCATIONS



DRAINAGE BUBBLES

INLET -----

MANHOLE -----

JUNCTION BOX -----

FIELD CONNECTION -----

I
1

MH
1

JB
1

C
1

GENERAL NOTES

1.

THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2018, ALL ERRATA AND ADDENDA THERETO, THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2.

FOR CONSTRUCTION, ALL HORIZONTAL SHALL BE BASED ON NAD 83/91, NAVD 88 DATUM.
3.

TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
4.

WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
5.

ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
6.

THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
7.

INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
8.

REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
9.

CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
10.

CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
11.

ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
12.

ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS SHALL BE SEEDED AND MULCHED.
13.

THE CONTRACTOR SHALL MAINTAIN THE APPROVED ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060
14.

THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
15.

ALL UTILITY POLES AND GUY WIRES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
16.

CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF W.S.S.C. CALL 301-699-4420
17.

THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
18.

THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD UTILITY WIRES EXIST WITHIN THE PROJECT SITE. LOCATIONS OF WIRES SHOULD BE NOTED IN FIELD WITH SIGNAGE TO AVOID CONFLICTS DURING CONSTRUCTION.
19.

CONTRACTOR SHALL TAKE EXTRA PRECAUTION WHERE THE CONSTRUCTION ACTIVITIES AND EXCAVATIONS WILL BE PERFORMED WITHIN 5 FEET OF THE EXISTING WASHINGTON GAS FACILITIES AND PIPELINES. IT IS RECOMMENDED THAT FIELD VERIFICATIONS OF THE EXISTING WASHINGTON GAS FACILITIES SHOULD BE PERFORMED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY WASHINGTON GAS AT (703) 750-1000 TO SCHEDULE PERSONNEL FOR DAMAGE PREVENTION 10 BUSINESS DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY EXPOSURE OF THE EXISTING GAS MAINS DURING THE CONSTRUCTION SHALL BE PERFORMED UNDER SUPERVISION OF ONSITE WASHINGTON GAS PERSONNEL(S). ALL EXPOSED GAS MAINS SHALL BE PROTECTED BY A WGL APPROVED PROTECTIVE SHIELD.
20.

CONTRACTOR TO PERFORM TEST PITS ON EXISTING WASHINGTON GAS FACILITIES AT THE ONSET OF ROADWAY CONSTRUCTION. INFORMATION GATHERED FROM THE TEST PITS (LOCATION AND ELEVATION OF FACILITY AT EACH TEST PIT) MUST BE PROVIDED TO WASHINGTON GAS PRIOR TO ANY ADDITIONAL CONSTRUCTION ACTIVITIES WITHIN 5 FEET HORIZONTAL CLEARANCE OF EXISTING WASHINGTON GAS FACILITIES. WASHINGTON GAS WILL REVIEW THE INFORMATION PROVIDED TO DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO AVOID CONFLICT WITH THEIR EXISTING FACILITIES.
21.

FOR ALL LOCATIONS WHERE PROPOSED FACILITIES CROSS OVER/UNDER EXISTING WASHINGTON GAS FACILITIES SMALLER THAN 16-INCHES IN DIAMETER, THE CONTRACTOR MUST MAINTAIN A MINIMUM 12-INCH VERTICAL SEPARATION BETWEEN THE OUTER EDGE OF THE PROPOSED FACILITY AND THE OUTER EDGE OF THE EXISTING WASHINGTON GAS FACILITY.
22.

FOR ALL LOCATIONS WHERE PROPOSED FACILITIES CROSS OVER/UNDER EXISTING WASHINGTON GAS FACILITIES THAT ARE 16-INCHES OR LARGER IN DIAMETER, THE CONTRACTOR MUST MAINTAIN A MINIMUM 24-INCHVERTICAL SEPARATION BETWEEN THE OUTER EDGE OF THE PROPOSED FACILITY AND THE OUTER EDGE OF THE EXISTING WASHINGTON GAS FACILITY.

GENERAL NOTES FOR WORK ON M-NCPPC PROPERTY

1.

ALL NOTES SHOWN ON THE DRAWINGS ARE TYPICAL UNLESS OTHERWISE SHOWN OR NOTED.
2.

A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED BY THE M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF ANY CONSTRUCTION RELATED ACTIVITY AT THE PROJECT SITE. CONTACT JAY CHILDS (301-495-2574) TO SCHEDULE.
3.

NO CLEARING, GRUBBING, OR GRADING SHALL COMMENCE UNTIL THE LIMITS OF DISTURBANCE ARE STAKED IN THE FIELD AND ARE APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER AS WELL AS ANY OTHER APPLICABLE PERMITTING AGENCIES. AFTER THE LIMITS ARE APPROVED, NO DISTURBANCE WILL BE ALLOWED OUTSIDE OF THE APPROVED LIMITS. ANY ITEMS DISTURBED OUTSIDE OF THE APPROVED LIMITS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4.

THE ENTIRE LOD SHALL BE FENCED AS DIRECTED BY THE PARK CONSTRUCTION MANAGER. WHERE SILT FENCE, SUPER SILT FENCE, OR TREE PROTECTION FENCE IS NOT REQUIRED, ORANGE BLAZE SAFETY FENCE MAY BE USED.
5.

FIELD RUN TOPOGRAPHIC SURVEY PROVIDED BY JMT IN NOVEMBER 2015. SURVEY COORDINATES ARE REFERENCED TO THE MARYLAND STATE PLAN COORDINATE SYSTEM NAD 83(2011). ELEVATIONS ARE REFERENCED TO THE NORTHERN AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BOUNDARIES SHOWN ARE DERIVED FROM DEED AND PLAT INFORMATION.
6.

M-NCPPC RESERVES THE RIGHT TO ADJUST AND MODIFY THE LIMITS OF DISTURBANCE IN THE FIELD TO MINIMIZE IMPACTS OF WORK.
7.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE FACILITY ACCESS THROUGHOUT CONSTRUCTION AND PROVIDE ANY APPROPRIATE DETOURS, TEMPORARY FACILITIES, AND SIGNAGE AS REQUESTED BY THE M-NCPPC CONSTRUCTION MANAGER.
8.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AND REPORT TO M-NCPPC CONSTRUCTION MANAGER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
9.

THE CONTRACTOR SHALL STAKE-OUT THE LOCATION OF FACILITIES AND MEET WITH THE M-NCPPC CONSTRUCTION MANAGER TO REVIEW THE LOCATION. M-NCPPC RESERVES THE RIGHT TO ADJUST THE LOCATIONS AS NECESSARY.
10.

SITE RESTORATION AND REPAIR/REPLACEMENT OF DAMAGED INFRASTRUCTURE SHALL BE IN ACCORDANCE WITH M-NCPPC DETAILS, STANDARDS, AND SPECIFICATIONS AT THE DIRECTION OF THE PARK INSPECTOR AT NO COST TO M-NCPPC.
11.

TREE PROTECTION FENCING SHALL BE PER TREE PROTECTION FENCE DETAIL SHOWN ON PLANS. TREE PROTECTION FENCE SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH M-NCPPC CONSTRUCTION MANAGER AND M-NCPPC URBAN FORESTER PRIOR TO PLACEMENT OF ALL TREE PROTECTION.
12.

ALL PLANTING SUBSTITUTIONS SHALL BE APPROVED BY M-NCPPC CONSTRUCTION MANAGER. PLANT MATERIALS AND LOCATIONS MUST BE INSPECTED BY M-NCPPC PRIOR TO INSTALLATION.
13.

PROVIDE DEER PROTECTION FENCING PER M-NCPPC SPECIFICATIONS FOR ALL LANDSCAPE AND REFORESTATION TREES AND SHRUBS TO PREVENT DAMAGE FROM DEER. TUBEX SHALL NOT BE USED AS A SUBSTITUTE.
14.

STAGING AREAS AND ACCESS ROUTES SHALL BE DETERMINED IN FIELD AND APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER TO MINIMIZE IMPACTS.
15.

M-NCPPC MAY INSPECT CONDITION OF TREES THROUGHOUT CONSTRUCTION AND REQUIRE REPAIR, REMOVAL, AND/OR REPLACEMENT OF ANY DAMAGED TREES AT NO COST TO M-NCPPC.
16.

CONSTRUCTION MANAGER MAY AUTHORIZE SPECIAL TREE AND TREE ROOT PROTECTION MEASURES OTHER THAN SHOWN ON THESE PLANS DURING CONSTRUCTION. THESE MAY INCLUDE, BUT NOT BE LIMITED TO 12-INCH THICK MULCH LAYER ACCESS BEDDING, MATTING, ADDITIONAL TREE PROTECTION FENCING, AND ADDITIONAL SEDIMENT CONTROLS.
17.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IDENTIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF THE CONSTRUCTION RELATED WORK AND SHALL COORDINATE THE WORK WITH M-NCPPC CONSTRUCTION MANAGER. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN ALL EXISTING AND PROPOSED UTILITIES AT ALL TIMES AS REQUIRED BY THE UTILITY COMPANIES.
18.

UTILITIES SHOWN HEREON ARE BASED ON BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF THIS INFORMATION. ANY COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DAMAGE MADE TO THE UTILITY SHALL BE REPAIRED ON AN EMERGENCY BASIS PER THE LATEST SPECIFICATIONS OF THE CONCERNED UTILITY AND COMPLETED WORK SHALL BE APPROVED BY THE CONCERNED UTILITY. ANY DAMAGE SHALL BE REPORTED AND DOCUMENTED IMMEDIATELY TO THE M-NCPPC CONSTRUCTION MANAGER. REPAIR APPROVALS SHALL BE PROVIDED TO THE M-NCPPC CONSTRUCTION MANAGER.
19.

DISCREPANCIES, OMISSION, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING SHALL BE BROUGHT TO THE ATTENTION OF THE M-NCPPC CONSTRUCTION MANAGER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF CONFLICTS EXIST, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE STATED IN WRITING BY THE M-NCPPC CONSTRUCTION MANAGER.
20.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL." IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH M-NCPPC REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATIONS.
21.

PAVEMENT REMOVAL SHALL INCLUDE REMOVAL OF GRAVEL SUBBASE AND SCARIFICATION OF SUBGRADE, UNLESS OTHERWISE DIRECTED BY M-NCPPC.
22.

THIS SITE IS LOCATED IN THE ANACOSTIA RIVER WATERSHED OF MONTGOMERY COUNTY. RUNOFF FROM THIS SITE DRAINS INTO THE PAINT BRANCH TRIBUTARY.
23.

NEITHER METAL SOD STAKES NOR TURF REINFORCEMENT MATTING WITH PLASTIC ARE PERMITTED ON PARK LAND.

EARTHWORK SUMMARY

CLASS I EXCAVATION

CUT (FROM CROSS SECTIONS)	1,585	CY	
PAVEMENT REMOVAL	300	CY	
TOPSOIL UNDER FILL	-	CY	
ROOT MAT UNDER FILL	-	CY	
PLUS CUT (FROM SWM AREA)	-	CY	
TOTAL CLASS I EXCAVATION	1,885	CY	1,885 CY

CLASS IA EXCAVATION (ESTIMATED)

MUCK REMOVAL (IF ANY)	-	CY	
UNDERCUTTING	-	CY	
TOTAL CLASS IA EXCAVATION	-	CY	- CY

CLASS 2 EXCAVATION


CUT (FROM CROSS SECTIONS)	-	CY	
TOTAL CLASS 2 EXCAVATION	-	CY	- CY

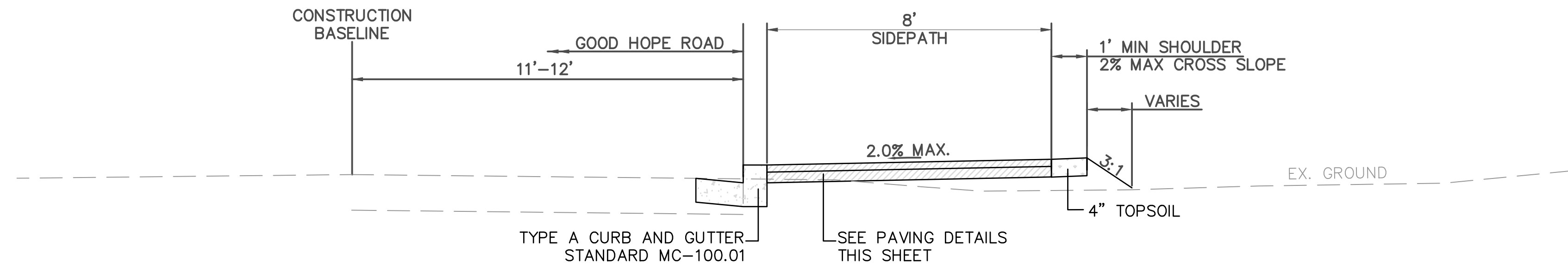
EXCAVATION AVAILABLE FOR EMBANKMENT

TOTAL CLASS I EXCAVATION + CLASS 2 EXCAVATION	1,885	CY	
MINUS:			
TOPSOIL (REMOVED IN CUT)	-	CY	
TOPSOIL (REMOVED UNDER FILL)	-	CY	
ROOT MAT (REMOVED IN CUT)	-	CY	
ROOT MAT (REMOVED IN FILL)	-	CY	
CUT ADJUSTED	1,885	CY	
CUT DENSIFIED (x 0.83)	1,565	CY	
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	1,565	CY	

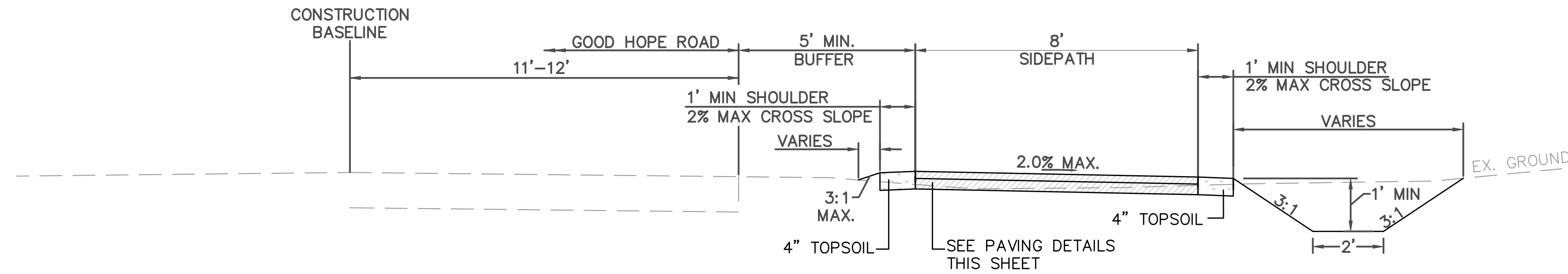
EMBANKMENT REQUIRED

FILL (FROM CROSS SECTIONS)	603	CY	
REFILL FOR TOPSOIL UNDER FILL	-	CY	
REFILL FOR ROOT MAT UNDER FILL	-	CY	
FILL (FROM SWM AREA)	-	CY	
TOTAL	603	CY	
MINUS EXCAVATION AVAILABLE FOR EMBANKMENT	(1,565)	CY	
ADJUSTED TOTAL	-962	CY	
PLUS DENSIFICATION FACTOR (x 1.20)	-1,155	CY	
MINUS SELECT BORROW	-	CY	
COMMON BORROW	-1,155	CY	-1,155 CY
SELECT BORROW	-	CY	- CY

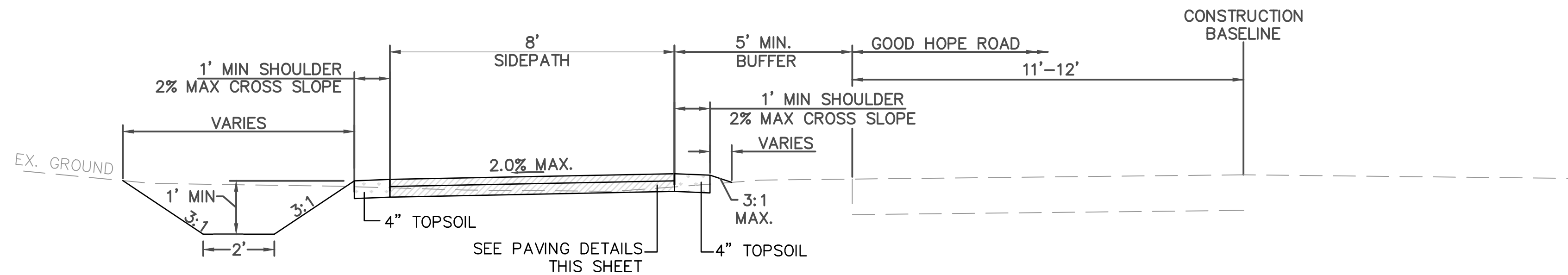
DRAFT NOT FOR CONSTRUCTION						MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			GN-03 GENERAL NOTES GOOD HOPE ROAD SIDEWALK		
						RECOMMENDED FOR APPROVAL					
						Chief, Design Section APPROVED					Date
						Chief, Division of Transportation Engineering					Date
		NO. REVISION DATE BY				Designed by: ADS Drawn by: ADS Checked by: JUR			DATE: NOVEMBER 2019		
						Project No. : 501902			SHEET 03 of 75		



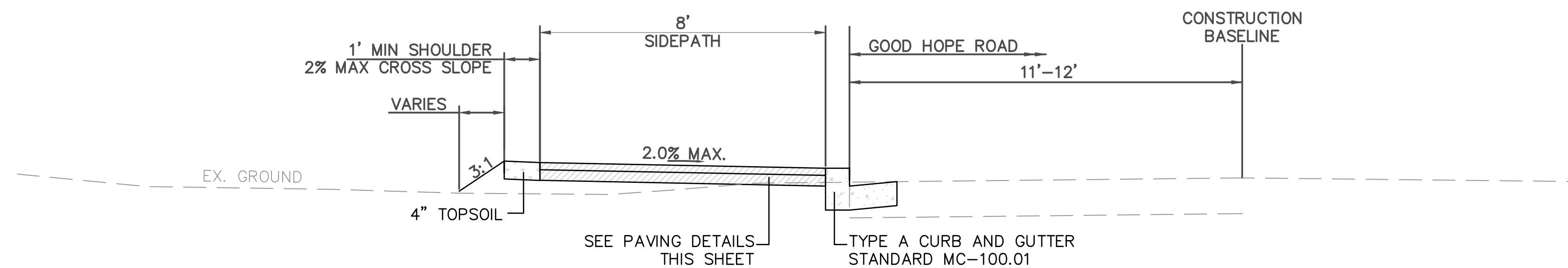
CLOSED SECTION; EAST SIDE
STA. 0+23.00 TO STA. 1+61.00
STA. 11+70.75 TO STA. 13+28.42



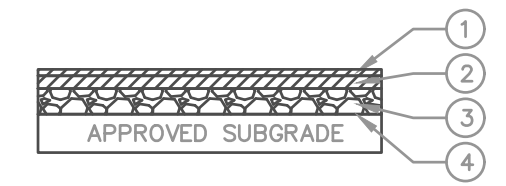
OPEN SECTION; EAST SIDE
STA. 1+61.00 TO STA. 11+70.75



OPEN SECTION; WEST SIDE
STA. 14+19.08 TO STA. 34+35.74
STA. 35+53.72 TO STA. 44+72.30

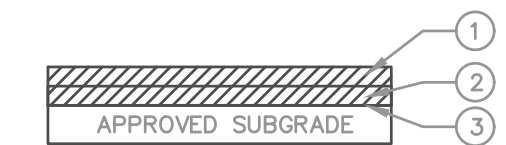


CLOSED SECTION; WEST SIDE
STA. 13+89.19 TO STA. 14+19.08
STA. 34+35.74 TO STA. 34+57.22
STA. 34+83.52 TO STA. 35+53.72
STA. 44+72.30 TO STA. 45+21.00



- ① 1.5" HMA SUPERPAVE 12.5MM FOR SURFACE, PG64S-22, LEVEL-2
② 2.5" HMA SUPERPAVE 19.0MM FOR BASE, PG64S-22, LEVEL-2
③ 5" CR-6 GRADED AGGREGATE BASE COURSE
④ LIMIT OF CLASS I EXCAVATION

IMPERVIOUS TRAIL PAVEMENT DETAIL
NTS



- ① 3" HMA SUPERPAVE 12.5MM FOR SURFACE, PG64S-22, LEVEL 2
② 3" HMA SUPERPAVE 19.0MM FOR BASE, PG64S-22, LEVEL 2
③ LIMIT OF CLASS I EXCAVATION

IMPERVIOUS PAVEMENT DETAIL-
DRIVEWAYS
NTS

DRAFT
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Transportation Engineering

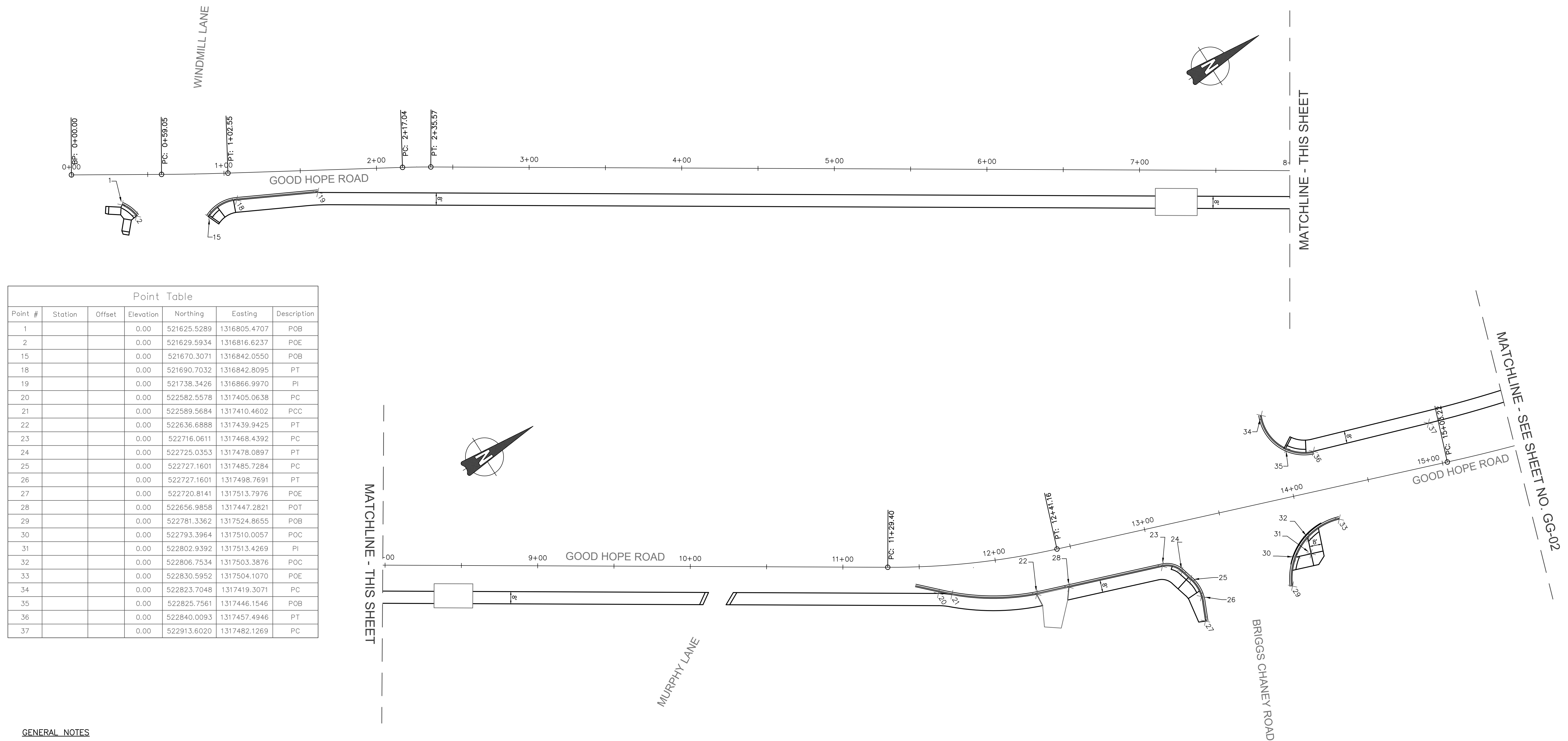
Date

Designed by: ADS Drawn by: ADS Checked by: JJR



TS-01
TYPICAL SECTIONS
GOOD HOPE ROAD
SIDEWALK

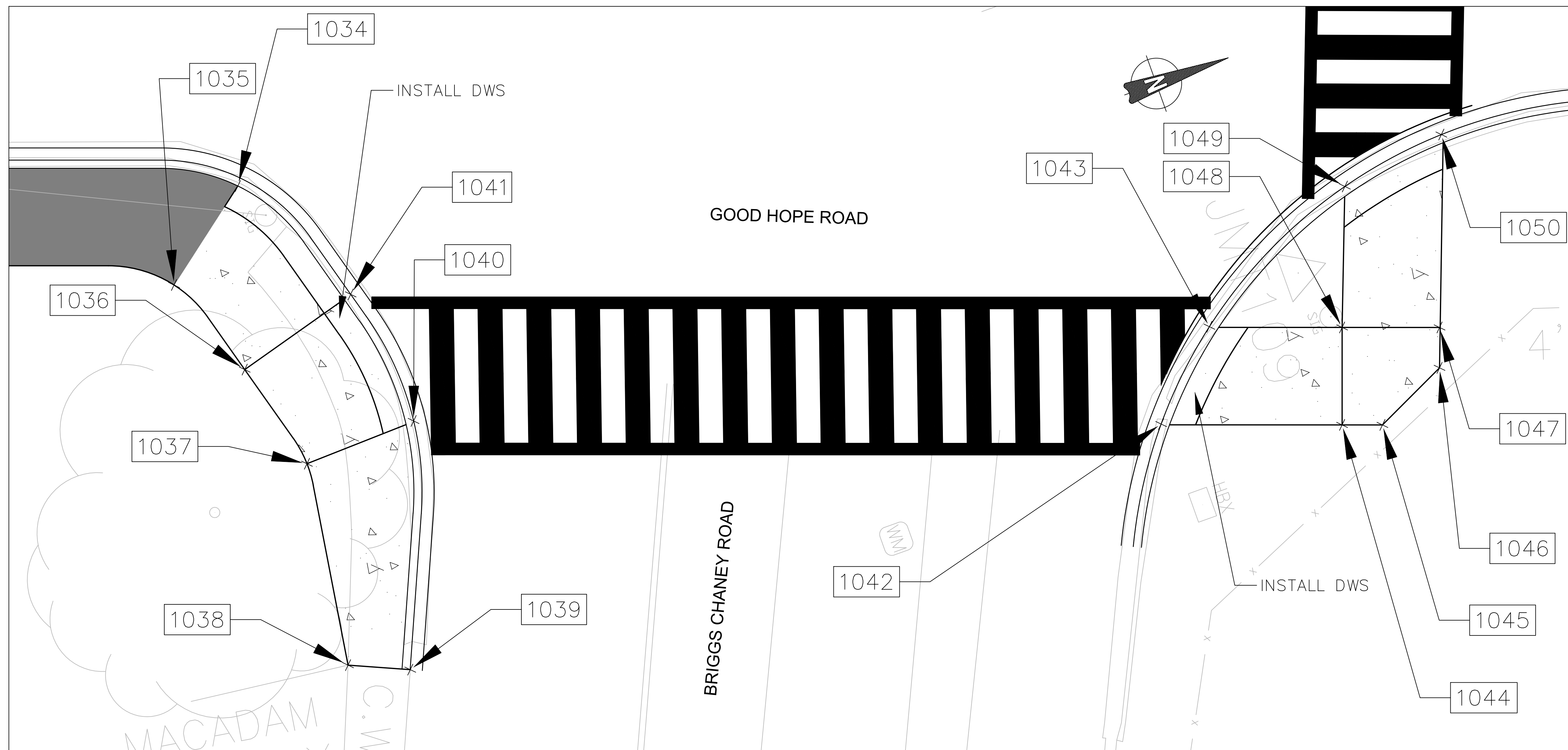
DATE: NOVEMBER 2019

Project No.: 501902 SHEET 04 of 75

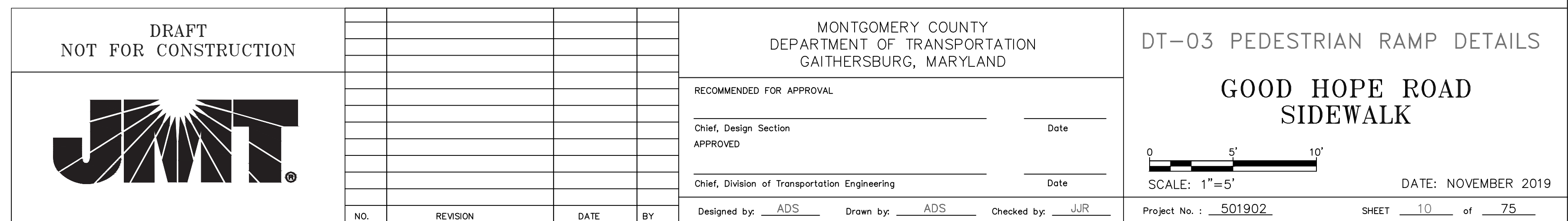


GENERAL NOTES

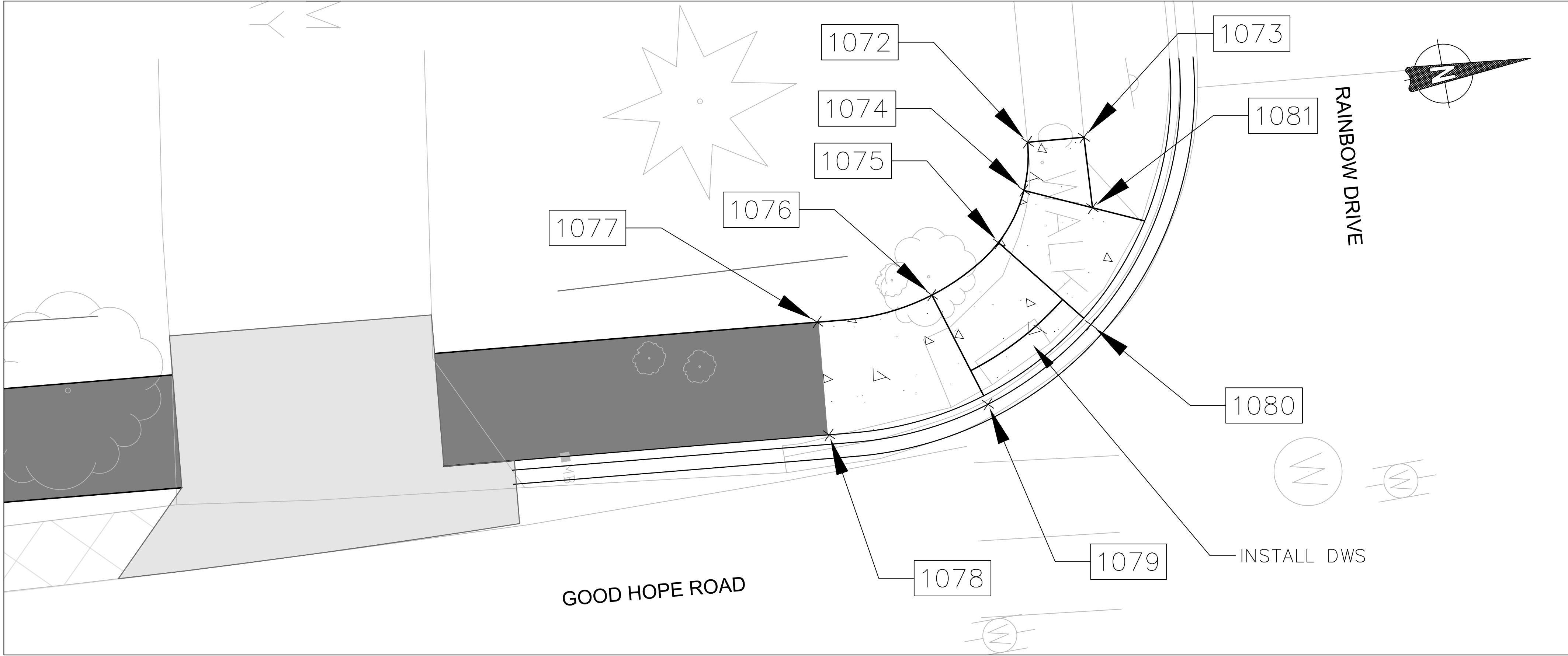
<p>DRAFT NOT FOR CONSTRUCTION</p>				<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>				<p>GG-01 GEOMETRICS</p>			
				<p>RECOMMENDED FOR APPROVAL</p>				<p>GOOD HOPE ROAD SIDEWALK</p>			
				<p>Chief, Design Section _____ Date _____</p> <p>APPROVED</p>							
				<p>Chief, Division of Transportation Engineering _____ Date _____</p>				<p>SCALE: 1"=30' DATE: NOVEMBER 2019</p>			
NO.	REVISION	DATE	BY	<p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>				<p>Project No. : <u>501902</u> SHEET <u>05</u> of <u>75</u></p>			

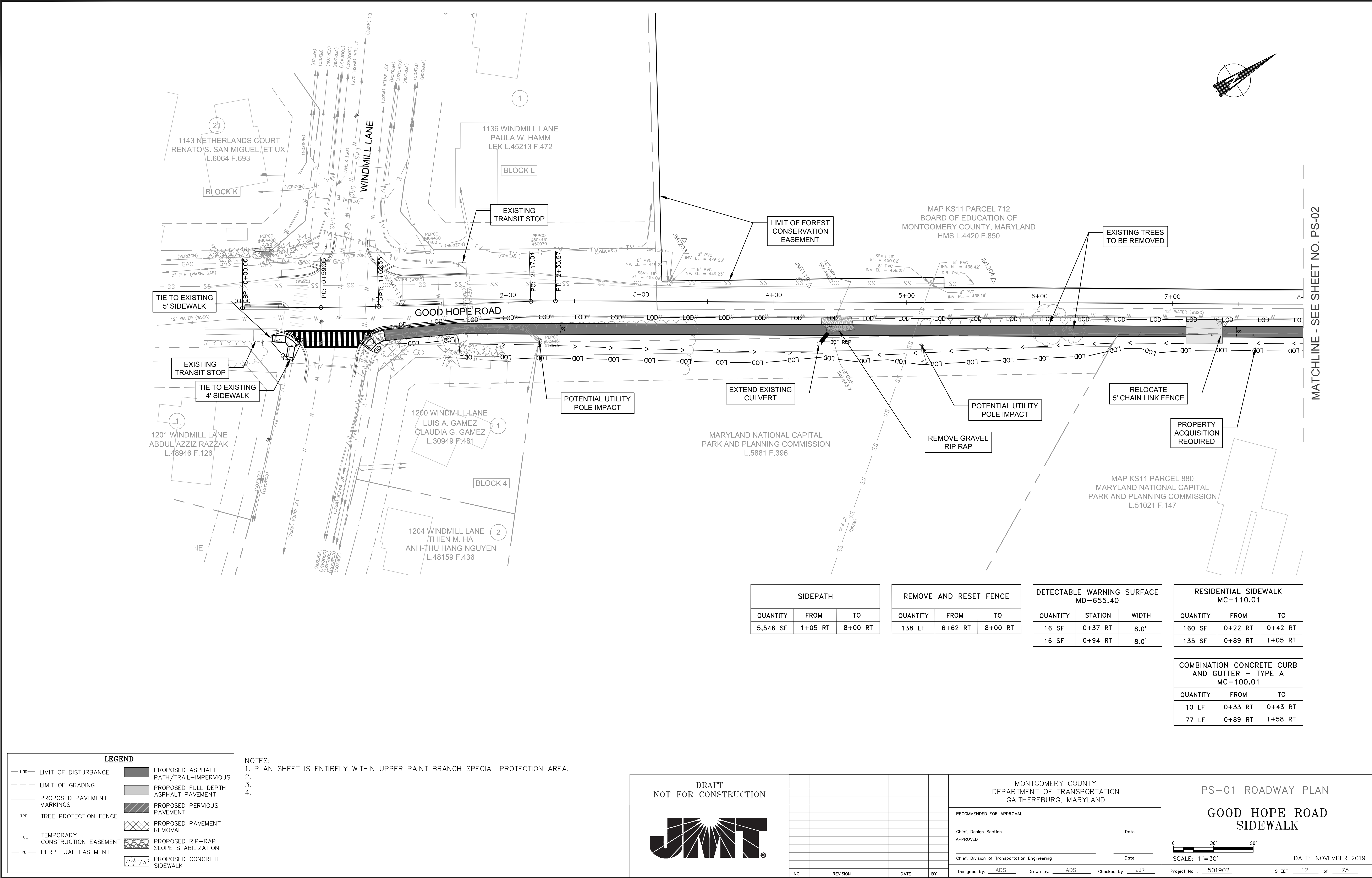


PEDESTRIAN RAMP				
POINT	NORTHING	EASTING	ELEVATION	NOTE
1028	522832.1075	1317441.2173	XX.X	LEVEL LANDING
1029	522839.5380	1317448.5059	XX.X	LEVEL LANDING
1030	522847.0109	1317451.4086	XX.X	
1031	522844.4196	1317458.9775	XX.X	
1032	522835.2439	1317456.0379	MATCH EXISTING	LEVEL LANDING
1033	522824.6541	1317445.6462	MATCH EXISTING	LEVEL LANDING
1034	522721.4907	1317471.9273	XX.X	
1035	522713.8161	1317477.8119	XX.X	
1036	522716.9403	1317486.3030	XX.X	LEVEL LANDING
1037	522719.1471	1317495.2999	XX.X	LEVEL LANDING
1038	522716.7490	1317512.0022	MATCH EXISTING	
1039	522721.4374	1317514.0729	MATCH EXISTING	
1040	522728.5739	1317494.9485	MATCH EXISTING	LEVEL LANDING
1041	522727.2143	1317483.4230	MATCH EXISTING	LEVEL LANDING
1042	522786.2732	1317515.8814	MATCH EXISTING	
1043	522792.6991	1317509.6950	MATCH EXISTING	
1044	522800.2394	1317520.9575	XX.X	LEVEL LANDING
1045	522803.3587	1317522.0758	XX.X	LEVEL LANDING
1046	522809.3516	1317519.2460	XX.X	LEVEL LANDING
1047	522810.4699	1317516.1267	XX.X	LEVEL LANDING
1048	522802.9392	1317513.4269	XX.X	LEVEL LANDING
1049	522807.0524	1317502.6114	MATCH EXISTING	
1050	522815.9454	1317501.2712	MATCH EXISTING	



PEDESTRIAN RAMP				
POINT	NORTHING	EASTING	ELEVATION	NOTE
1072	525826.1619	1318195.6133	MATCH EXISTING	
1073	525830.1491	1318195.9581	MATCH EXISTING	
1074	525825.3150	1318198.9220	XX.X	
1075	525822.9443	1318202.2794	XX.X	LEVEL LANDING
1076	525817.6353	1318205.0748	XX.X	LEVEL LANDING
1077	525809.3159	1318205.5481	XX.X	
1078	525808.7725	1318213.5321	XX.X	
1079	525820.1932	1318213.3588	MATCH EXISTING	LEVEL LANDING
1080	525828.3261	1318209.0768	MATCH EXISTING	LEVEL LANDING
1081	525829.8760	1318200.9707	XX.X	





MATCHLINE - SEE SHEET NO. PS-02

LEGEND

— LOD — LIMIT OF DISTURBANCE

— LG — LIMIT OF GRADING

— — — PROPOSED PAVEMENT MARKINGS

— TPF — TREE PROTECTION FENCE

— TCE — TEMPORARY CONSTRUCTION EASEMENT

— PE — PERPETUAL EASEMENT

■ PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS

■ PROPOSED FULL DEPTH ASPHALT PAVEMENT

■ PROPOSED PERVIOUS PAVEMENT

■ PROPOSED PAVEMENT REMOVAL

■ PROPOSED RIP-RAP SLOPE STABILIZATION

■ PROPOSED CONCRETE SIDEWALK

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.
2.
3.
4.

SIDEPATH		
QUANTITY	FROM	TO
5,546 SF	1+05 RT	8+00 RT

REMOVE AND RESET FENCE		
QUANTITY	FROM	TO
138 LF	6+62 RT	8+00 RT

DETECTABLE WARNING SURFACE MD-655.40		
QUANTITY	STATION	WIDTH
16 SF	0+37 RT	8.0'
16 SF	0+94 RT	8.0'

RESIDENTIAL SIDEWALK MC-110.01		
QUANTITY	FROM	TO
160 SF	0+22 RT	0+42 RT
135 SF	0+89 RT	1+05 RT

COMBINATION CONCRETE CURB AND GUTTER - TYPE A MC-100.01		
QUANTITY	FROM	TO
10 LF	0+33 RT	0+43 RT
77 LF	0+89 RT	1+58 RT

DRAFT
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering

Designed by: ADS Drawn by: ADS Checked by: JJR

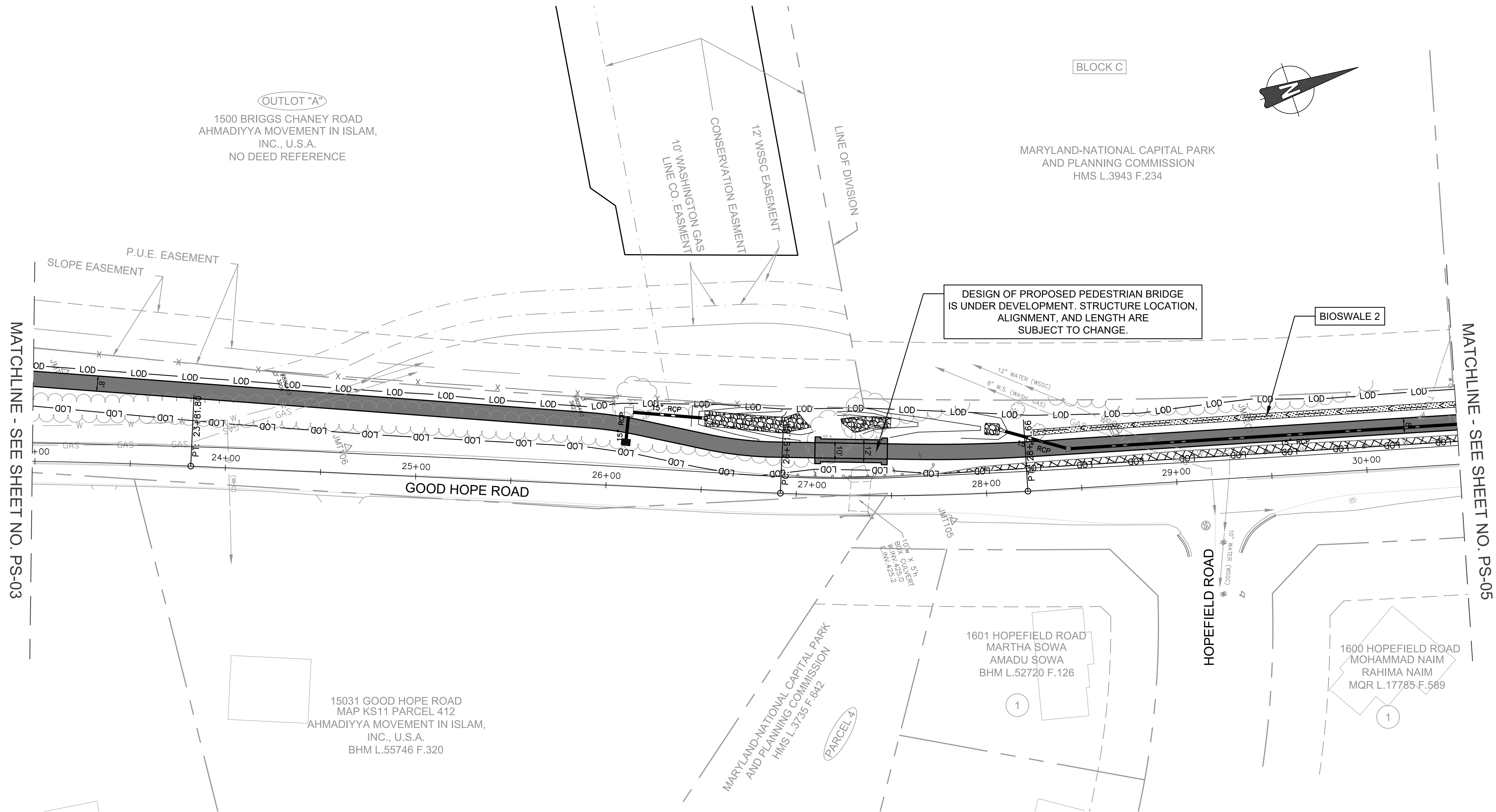
PS-01 ROADWAY PLAN

GOOD HOPE ROAD
SIDEWALK

SCALE: 1"=30'

DATE: NOVEMBER 2019

Project No.: 501902 SHEET 12 of 75



REMOVE EXISTING PAVEMENT		
QUANTITY	FROM	TO
933 SF	27+74 LT	30+50 LT

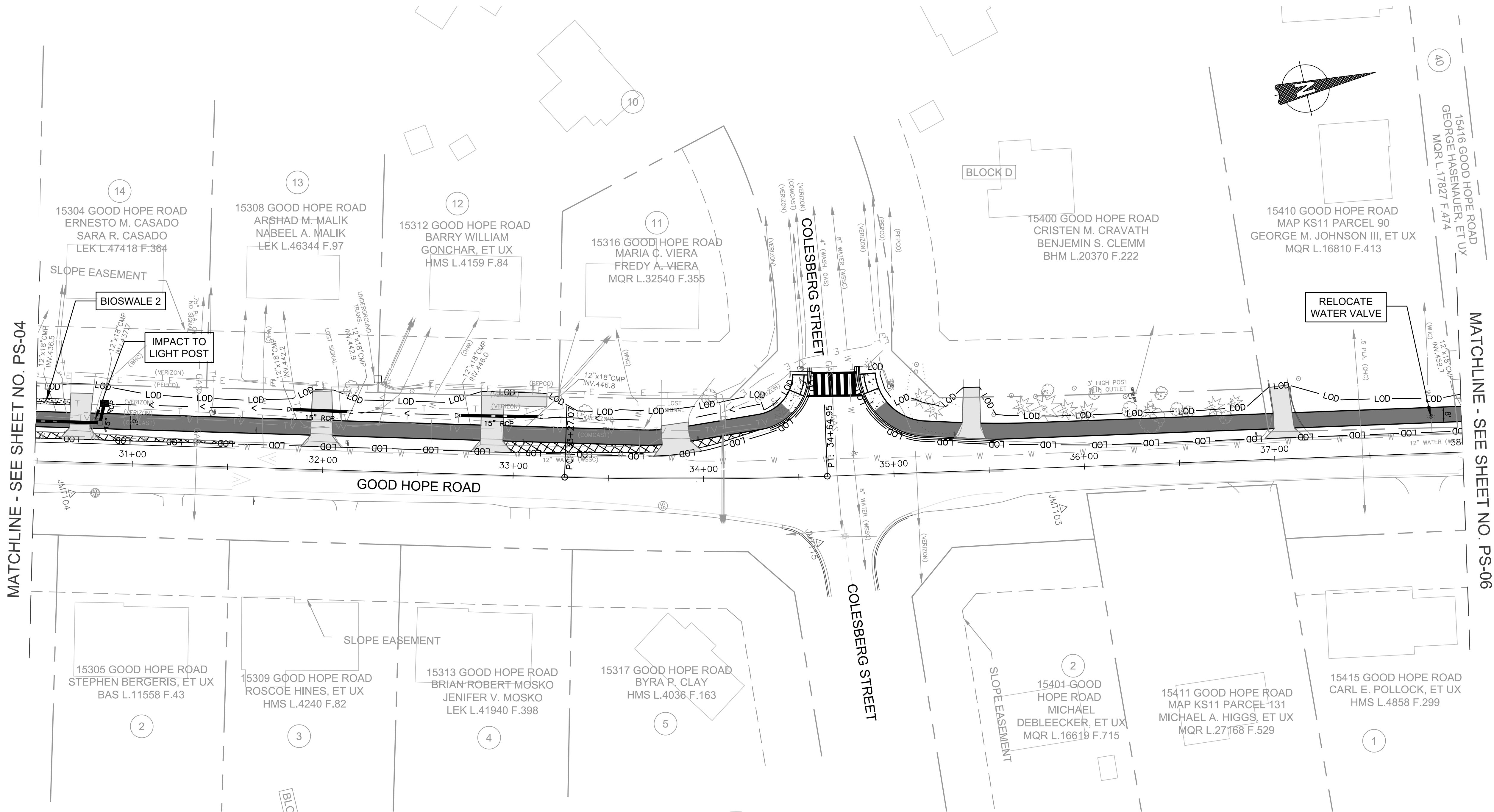
PREFABRICATED PEDESTRIAN BRIDGE		
QUANTITY	FROM	TO
480 SF	27+09 LT	27+49 LT

SIDEPATH		
QUANTITY	FROM	TO
3,108 SF	23+00 LT	26+87 LT
2,249 SF	27+67 LT	30+50 LT

LEGEND	
— LOD —	LIMIT OF DISTURBANCE
— LG —	LIMIT OF GRADING
— PM —	PROPOSED PAVEMENT MARKINGS
— TPF —	TREE PROTECTION FENCE
— TCE —	TEMPORARY CONSTRUCTION EASEMENT
— PE —	PERPETUAL EASEMENT
	PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
	PROPOSED FULL DEPTH ASPHALT PAVEMENT
	PROPOSED PERVIOUS PAVEMENT
	PROPOSED PAVEMENT REMOVAL
	PROPOSED RIP-RAP SLOPE STABILIZATION
	PROPOSED CONCRETE SIDEWALK

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.

DRAFT NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		PS-04 ROADWAY PLAN GOOD HOPE ROAD SIDEWALK	
		RECOMMENDED FOR APPROVAL		SCALE: 1"=30'	
		Chief, Design Section APPROVED _____ Date _____		DATE: NOVEMBER 2019	
		Chief, Division of Transportation Engineering APPROVED _____ Date _____		Project No. : 501902	
		Designed by: ADS Drawn by: ADS Checked by: JUR		SHEET 15 of 75	
NO.	REVISION	DATE	BY		



SIDEPATH		
QUANTITY	FROM	TO
131 SF	30+50 LT	30+66 LT
925 SF	30+77 LT	31+93 LT
622 SF	32+05 LT	32+82 LT
656 SF	32+94 LT	33+77 LT
427 SF	33+92 LT	34+47 LT
364 SF	34+91 LT	35+36 LT
1,217 SF	35+47 LT	36+99 LT
692 SF	37+13 LT	38+00 LT

RESIDENTIAL DRIVEWAY MC - 301.01		
QUANTITY	STATION	WIDTH
38 SY	30+71 LT	11.0'
39 SY	32+00 LT	12.0'
44 SY	32+88 LT	12.0'
49 SY	33+85 LT	15.0'
24 SY	35+42 LT	11.0'
43 SY	37+05 LT	14.0'

DETECTABLE WARNING SURFACE MD-655.40		
QUANTITY	STATION	WIDTH
16 SF	34+55 LT	8.0'
16 SF	34+85 LT	8.0'

REMOVE EXISTING PAVEMENT		
QUANTITY	FROM	TO
1,225 SF	14+16 LT	15+50 LT

RESIDENTIAL SIDEWALK MC-110.01		
QUANTITY	FROM	TO
156 SF	34+47 LT	34+57 LT
149 SF	34+84 LT	34+91 LT

COMBINATION CONCRETE CURB AND GUTTER - TYPE A MC-100.01		
QUANTITY	FROM	TO
42 LF	34+36 LT	34+57 LT
95 LF	34+84 LT	35+54 LT

LEGEND	
— LOD —	LIMIT OF DISTURBANCE
— LG —	LIMIT OF GRADING
— PM —	PROPOSED PAVEMENT MARKINGS
— TPF —	TREE PROTECTION FENCE
— TCE —	TEMPORARY CONSTRUCTION EASEMENT
— PE —	PERPETUAL EASEMENT
	PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
	PROPOSED FULL DEPTH ASPHALT PAVEMENT
	PROPOSED PERVIOUS PAVEMENT
	PROPOSED PAVEMENT REMOVAL
	PROPOSED RIP-RAP SLOPE STABILIZATION
	PROPOSED CONCRETE SIDEWALK

NOTES:
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.
2.
3.
4.

DRAFT
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: ADS Drawn by: ADS Checked by: JJR

PS-05 ROADWAY PLAN

GOOD HOPE ROAD
SIDEWALK

SCALE: 1"=30'

DATE: NOVEMBER 2019

Project No.: 501902 SHEET 16 of 75

EROSION AND SEDIMENT CONTROL – GENERAL NOTES

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department.
- The permittee must obtain inspection and approval by DPS at the following points:
 - At the required pre-construction meeting.
 - Following installation of sediment control measures and prior to any other land disturbing activity.
 - During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory.
 - Prior to removal or modification of any sediment control structure(s).
 - Prior to final acceptance.
- The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department.
- The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
- The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
 - Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.
- The permittee shall apply sod, seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.
- Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.
- The site permit, work, materials, approved SC/SM plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County.
- Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
- Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.
- Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.
- No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
- The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
- For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.
- Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.
- All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.
- The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.
- Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for ST-III) or when required by the sediment control inspector.
- Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
- All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater the two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
- No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.
- Off-site spoil or borrow areas must have prior approval by DPS.
- Sediment trap/basin dewatering for cleanout or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:
 - Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or
 - the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or
 - the pump intake may be floated and discharge into a Dirt Bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area. Remember: Dewatering operation and method must have prior approval by the DPS inspector.
- The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
- Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments".

STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		REMOVABLE PUMPING STATION	
BAFFLE BOARDS		RIPRAP INFLOW PROTECTION	
BENCHING		RIPRAP OUTLET SEDIMENT TRAP ST III	
CATCH BASIN INSERT		ROCK OUTLET PROTECTION I	
CLEAR WATER DIVERSION PIPE		ROCK OUTLET PROTECTION II	
CLEAR WATER PIPE		ROCK OUTLET PROTECTION III	
COMBINATION INLET PROTECTION		SILT FENCE	
CONCRETE WASHOUT STRUCTURE		SILT FENCE ON PAVEMENT	
CURB INLET PROTECTION		SOD	
DIVERSION FENCE		STABILIZED CONSTRUCTION ENTRANCE	
EARTH DIKE		STANDARD INLET PROTECTION	
EMERGENCY SPILLWAY		STOCKPILE AREA	
FILTER BAG		STONE CHECK DAM	
FILTER BERM		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
FILTER LOG		SUBSURFACE DRAINS	
GABION INFLOW PROTECTION		SUMP PIT	
GABION INLET PROTECTION		SUPER SILT FENCE	
HORIZONTAL DRAW-DOWN DEVICE		TEMPORARY ACCESS BRIDGE	
LIMIT OF DISTURBANCE		TEMPORARY ACCESS CULVERT	
MEDIAN INLET PROTECTION		TEMPORARY ASPHALT BERM	
MEDIAN SUMP INLET PROTECTION		TEMPORARY BARRIER DIVERSION	
MOUNTABLE BERM		TEMPORARY GABION OUTLET STRUCTURE	
PERIMETER DIKE/SWALE		TEMP. SOIL STABILIZATION MATTING-TYPE A	
PERM. SOIL STABILIZATION MATTING-TYPE B		TEMP. SOIL STABILIZATION MATTING-TYPE E	
PERM. SOIL STABILIZATION MATTING-TYPE C		TEMP. SOIL STABILIZATION MATTING-TYPE D	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY STONE OUTLET STRUCTURE	
PIPE SLOPE DRAIN		TEMPORARY SWALE	
PLUNGE POOL		WASH RACK OPTION	
PORTABLE SEDIMENT TANK		CHESAPEAKE BAY CRITICAL AREA	
DRAINAGE BOUNDARY		TREE PROTECTION FENCE	
EXISTING CONTOURS		WETLAND	
PROPOSED CONTOURS		WETLAND BUFFER	
		100-YEAR FLOODPLAIN	

STANDARD NOTES

- The contractor will immediately inform the county of any discrepancies found between the project plans and contract specifications.
- For construction, all horizontal control shall be NAD 83/91 and vertical control NAVD 88.
- Types of storm drain structures refer to the 'Design Standards' of Montgomery County Department of Transportation, unless otherwise noted.
- Information concerning underground utilities was obtained from available records. The contractor must determine the exact location and elevations of the lines by digging test pits by hand at all utility crossings well in advance of trenching. If clearances are less than shown on this plan or six inches, whichever is less, the contractor shall contact the county.
- Repairs to utilities or property damaged as a result of the contractor's negligence or method of operation must be made at the contractor's expense before proceeding with construction.
- Call "Miss Utility" at 1-800-257-7777 forty-eight (48) hours prior to beginning excavation to determine the exact location of existing utilities.
- Clearing to be limited to the "limit of disturbance" as shown on the plans.
- All grading shall be done in such a manner as to provide positive drainage.
- Disturbed areas adjacent to established lawns shall be sodded. Other disturbed areas shall be seeded and mulched.
- The contractor shall obtain a roadside tree permit for any maintenance, treatment, planting, removal or root cutting on trees within the public right-of-way before starting a job. Permit requirements may be obtained from the Department of Natural Resources – Maryland Forest, Park and Wildlife service whose telephone number is (301) 854-6060.
- Contact the Washington Suburban Sanitary Commission maintenance engineer before excavating beneath or in the vicinity of existing water or sewer lines. Backfill to be done under the supervision of W.S.S.C. call 301-699-4420.
- Contact Washington gas dispatch officer at (703) 750-4831 before excavating beneath or in the vicinity of existing gas main and service laterals.
- Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for topsoil".

STANDARD SEQUENCE OF CONSTRUCTION NOTES

- Prior to clearing trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) sediment control inspector (240) 777-6210 (48 hours notice) and the MNCPPC, Planning Department, Plans Enforcement inspector (301) 495-4571 (48 hours notice), the Owners representative, and the site Engineer.
- The limits of disturbance shall be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities.
- The permittee must obtain written approval from the MNCPPC inspector, certifying that the limits of disturbance and tree protection measures are correctly marked and installed prior to commencing any clearing.
- Clear and grade for installation of sediment control devices.
- Install sediment control devices. Traps and basins shall be constructed prior to construction of any earth dikes that convey drainage to a trap and/or basin.
- Once the sediment control devices are installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing or grading.
- The detailed sequence of construction by phase is presented on Sheets SC-06 thru SC-20.

NOTE 1: The permittee shall obtain written approval from MCDPS inspector, prior to the removal of any sediment control devices.

OFFSITE GRADING NOTE:
Offsite grading requires documentation of permission from owner (letter of permission on plan or recorded grading easement document submitted). Written approval for grading outside of the Right-of-Way shall be provided to the Inspector before construction is authorized to proceed.

STOCKPILE NOTE:
The Contractor shall establish staging and stockpile areas at locations approved by the Engineer. These areas shall be established such that environmentally sensitive areas are not impacted. Erosion sediment control measures such as silt fence shall be installed downgrade of the staging and stockpile areas and as directed by the Engineer, and diversions such as sandbags shall be placed upstream to prevent stormwater run-on from contacting the stockpile.

PHASED GRADING NOTE:
The contractor shall phase clearing and grading to minimize the area disturbed at a given time during connection. All areas not draining to an approved sediment control measure shall receive same-day stabilization.

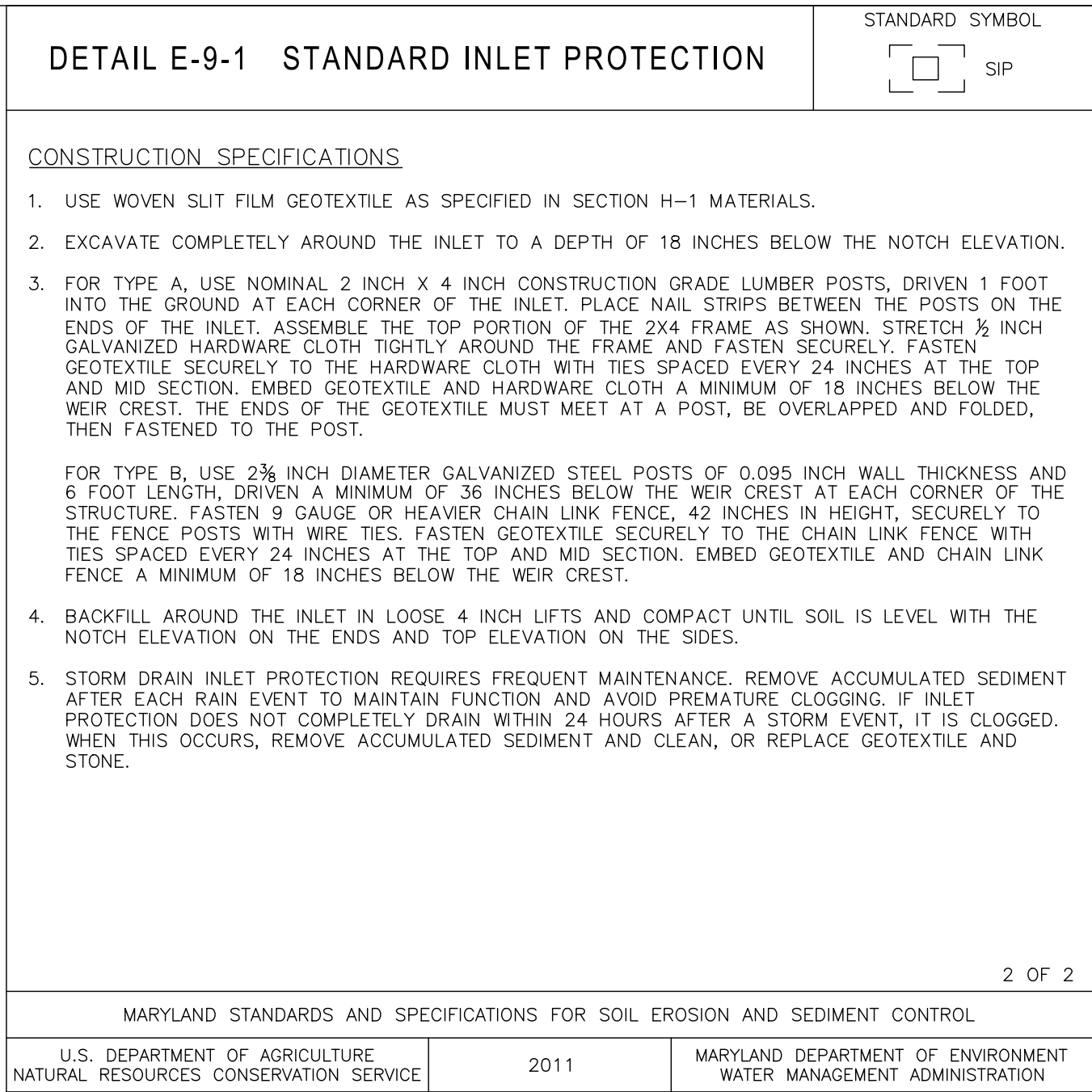
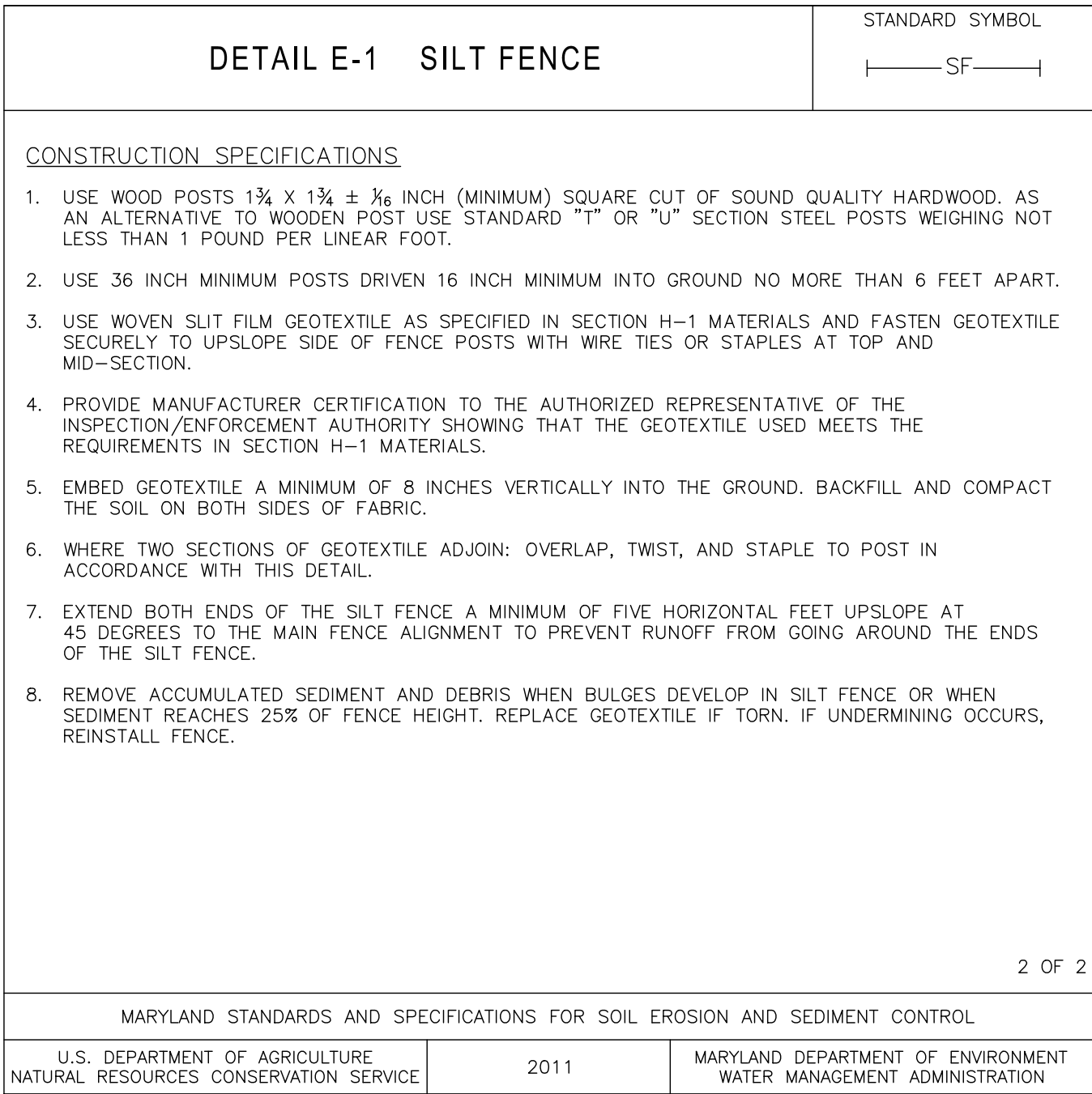
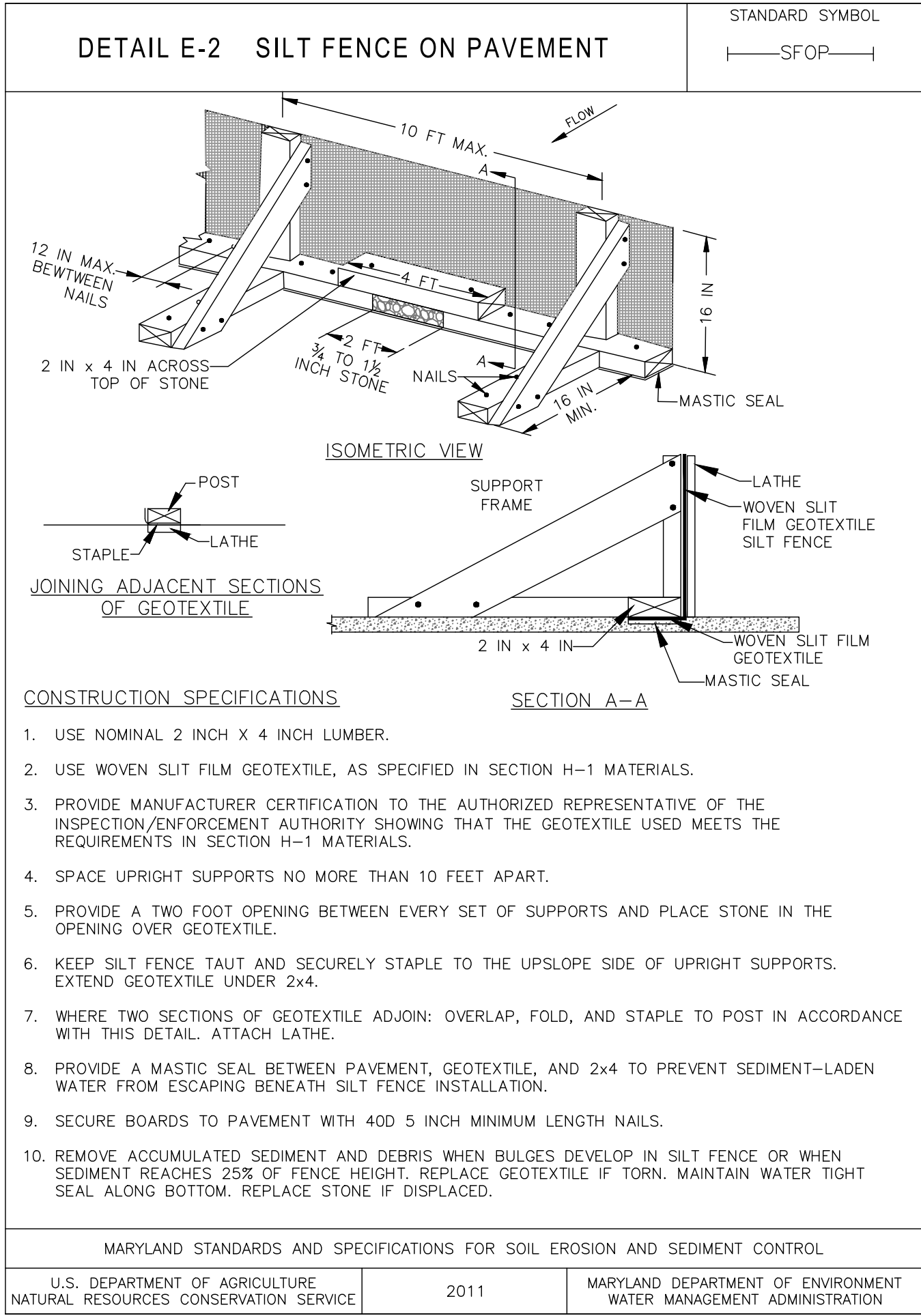
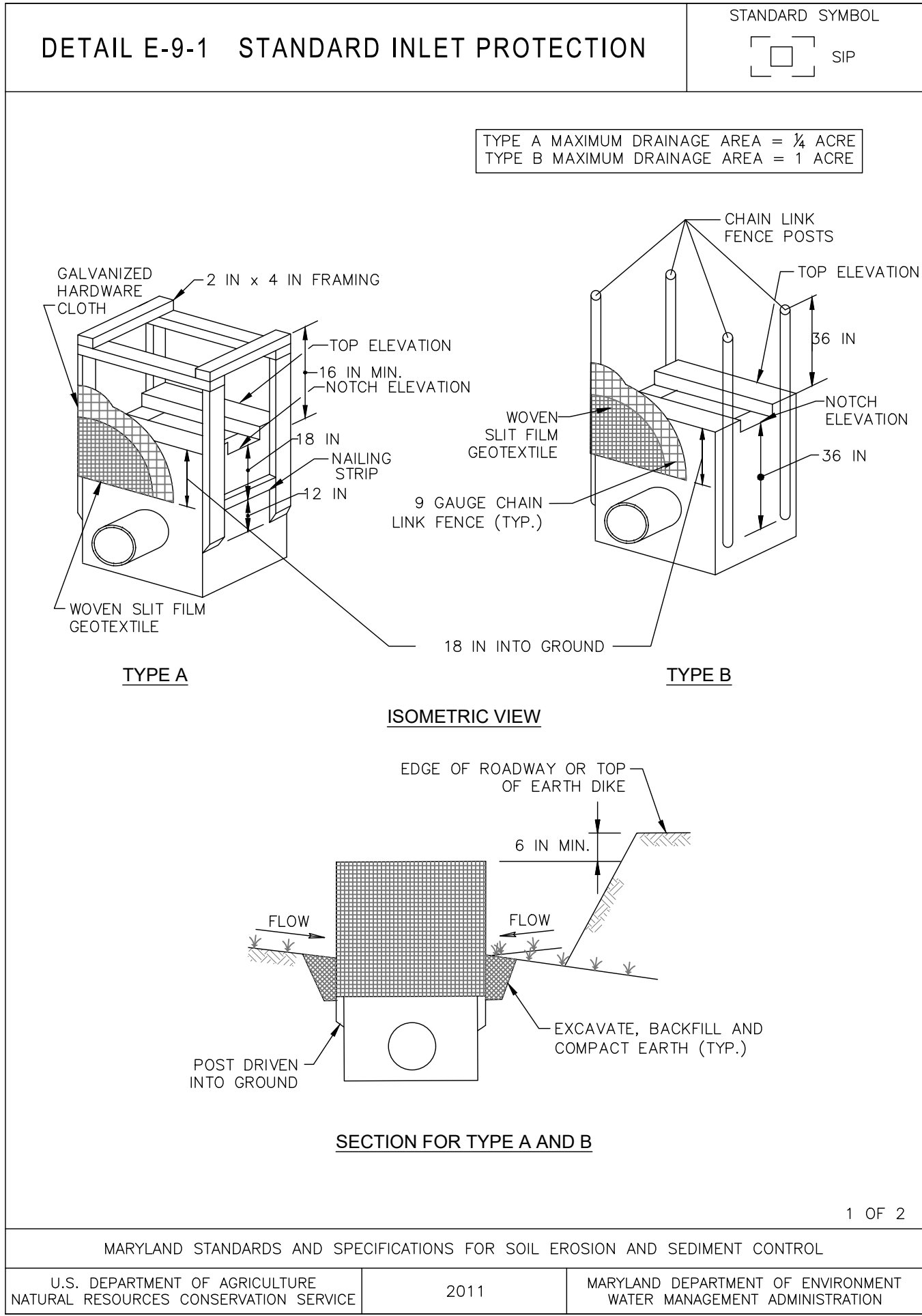
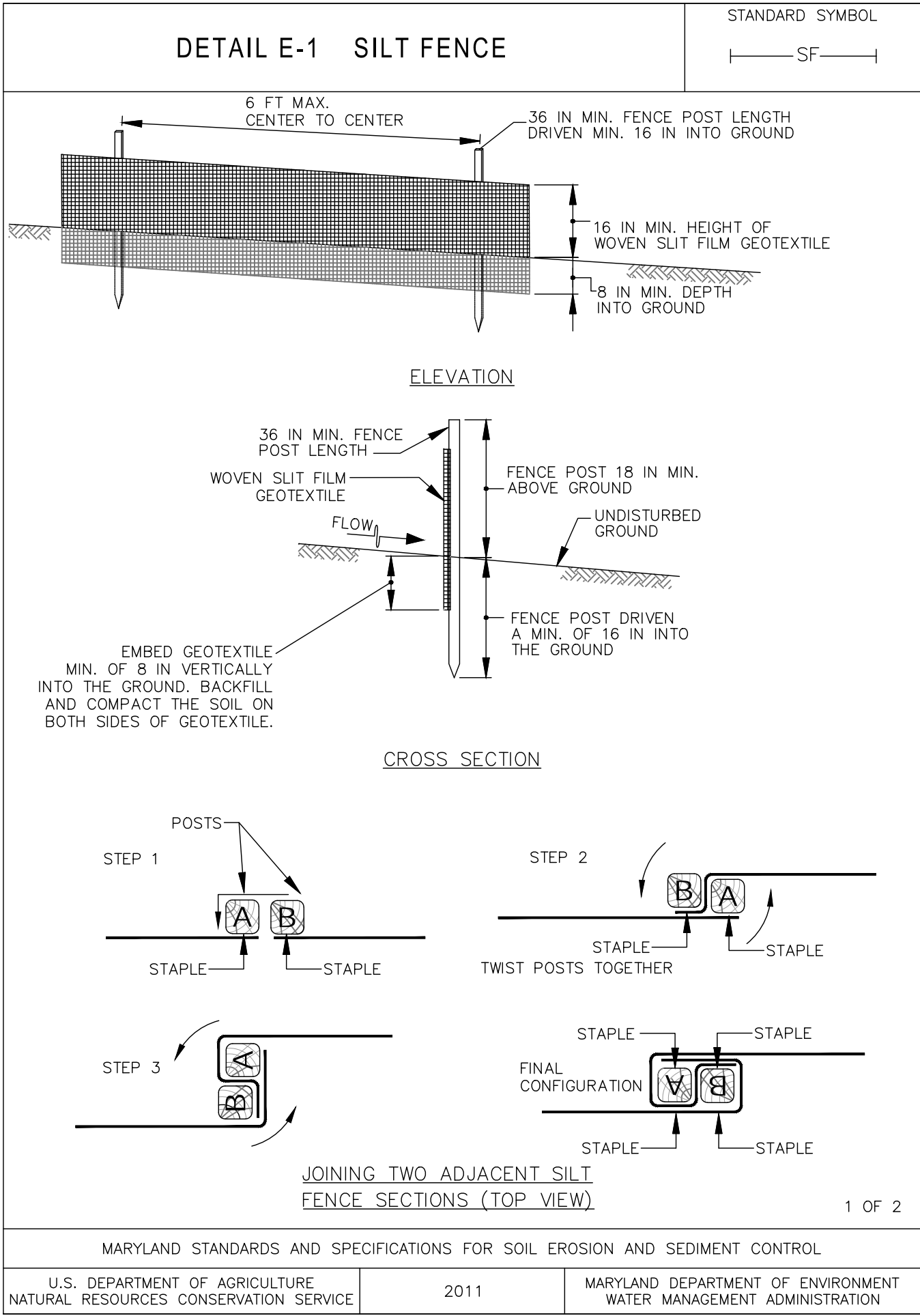
SITE INFORMATION		
DISTURBED AREA (LOD)	CUT (CY)	FILL (CY)
3.04 ac	2,755	495

P.E. CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 43192, EXPIRATION DATE: 12-19-20

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
BIOSWALES, PERMEABLE PAVEMENT		
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.		

35% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			EROSION AND SEDIMENT CONTROL SC-01 NOTES SHEET	
					RECOMMENDED FOR APPROVAL			GOOD HOPE ROAD SIDEPATH	
					Chief, Design Section APPROVED _____ Date _____				
					Chief, Division of Transportation Engineering _____ Date _____			SCALE: NOT TO SCALE DATE: NOVEMBER 2019	
					Designed by: _____ Drawn by: _____ Checked by: _____			Project No. : <u>501902</u> SHEET <u>18</u> of <u>75</u>	
	NO.	REVISION	DATE	BY					



MCDPS
APPROVED FOR:

Stormwater Management:
BIOSWALES, PERMEABLE PAVEMENT

Reviewed _____ Date _____

Approved _____ Date _____

SM FILE # _____

Sediment Control Technical Requirements:

Reviewed _____ Date _____

Approved _____ Date _____

Administrative Requirements:

Reviewed _____ Date _____

SEDIMENT CONTROL PERMIT NO.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED.

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.

35% DESIGN
NOT FOR CONSTRUCTION



RJM ENGINEERING

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

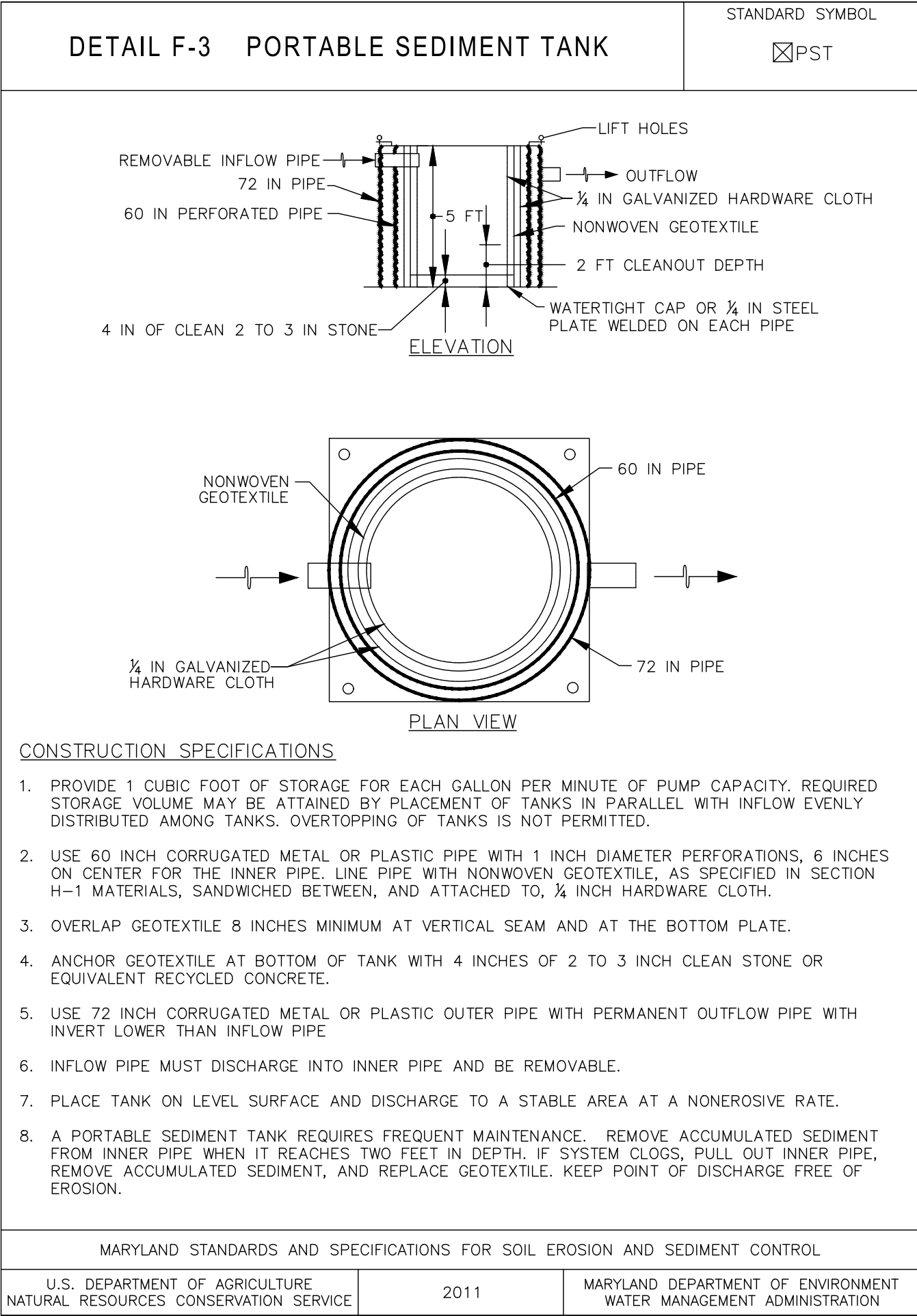
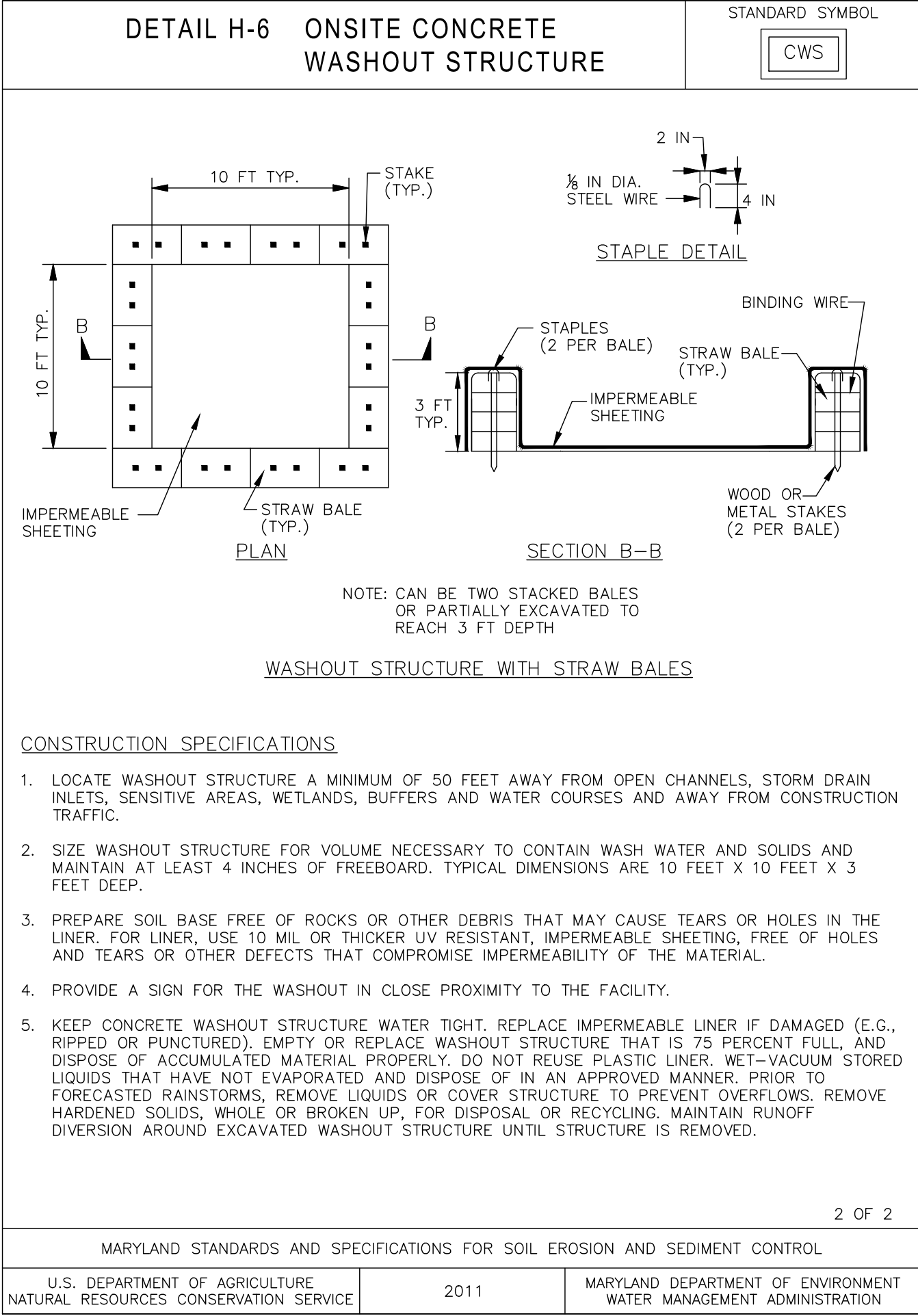
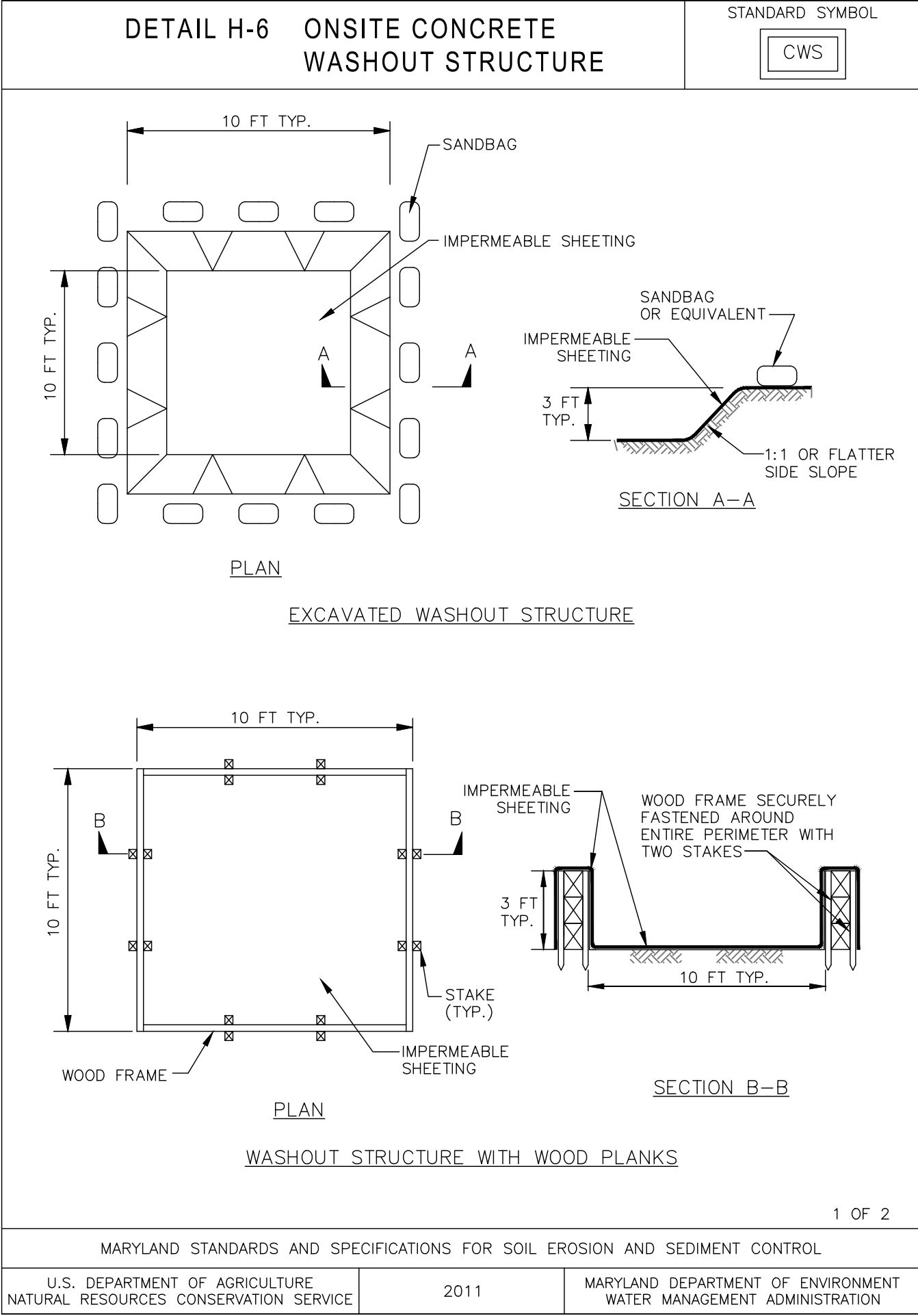
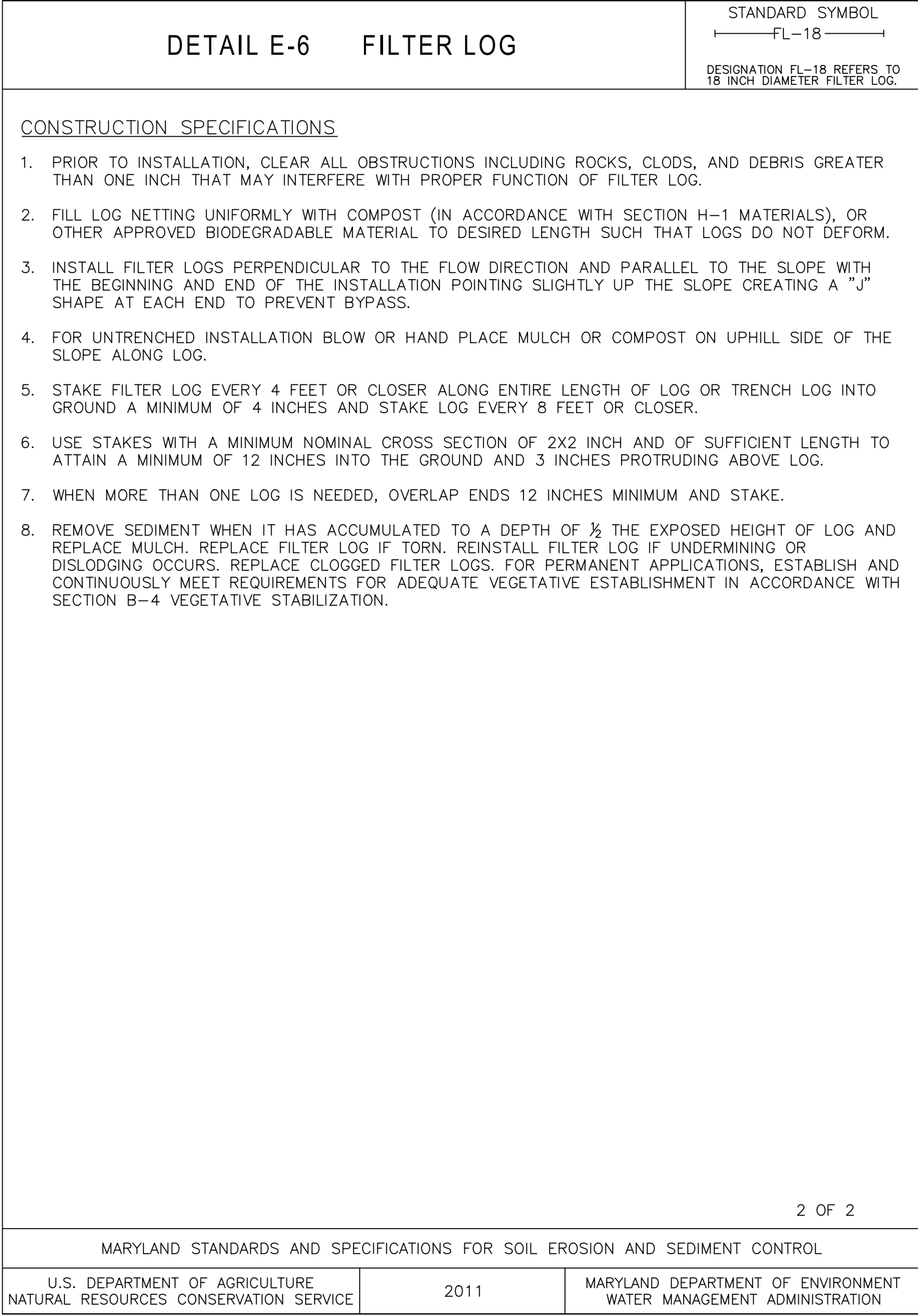
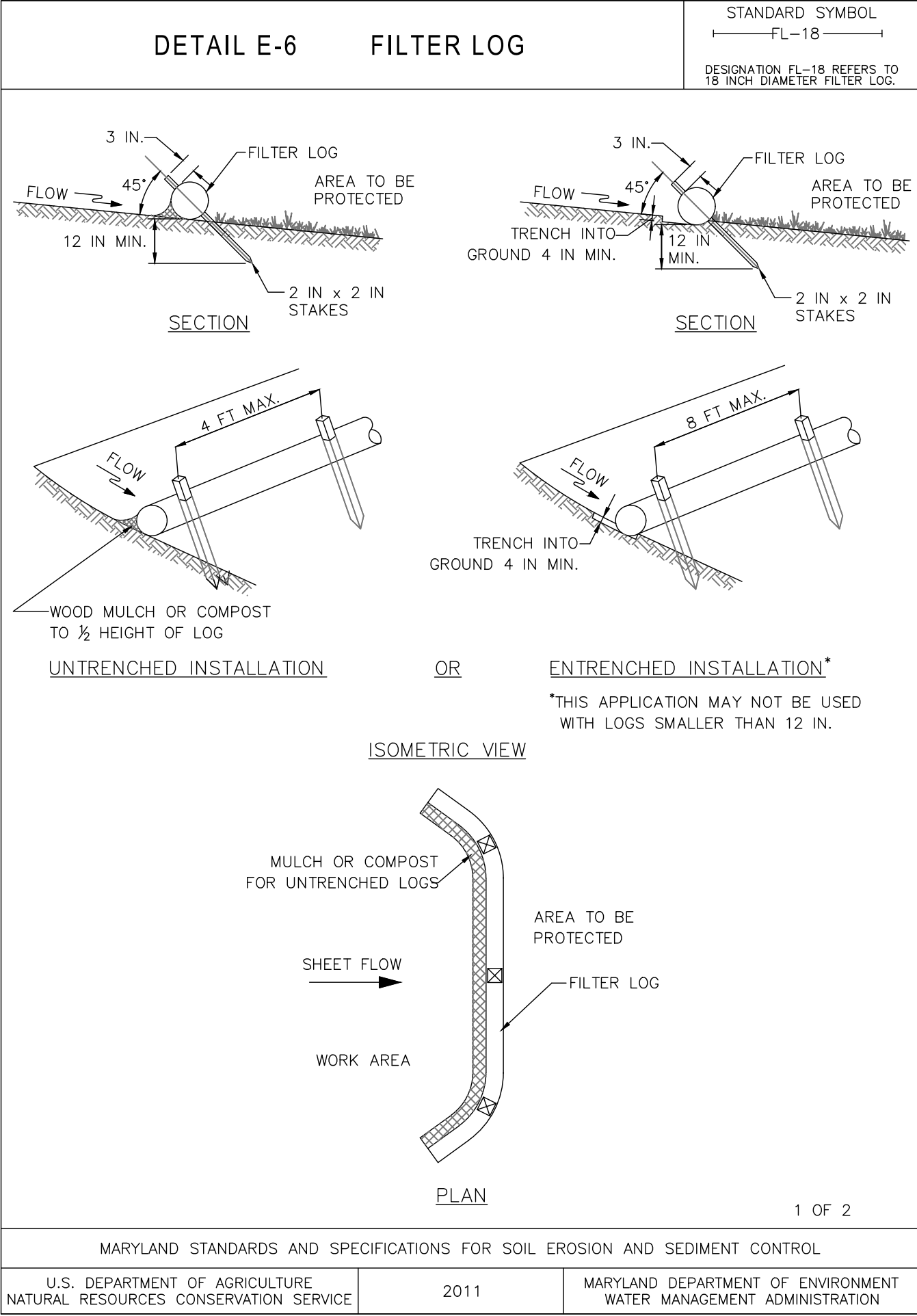
Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

EROSION AND SEDIMENT CONTROL
SC-02 DETAIL SHEET
GOOD HOPE ROAD
SIDEPATH

SCALE: NOT TO SCALE DATE: NOVEMBER 2019

Project No. : 501902 SHEET 19 of 75



TREE PRESERVATION NOTES

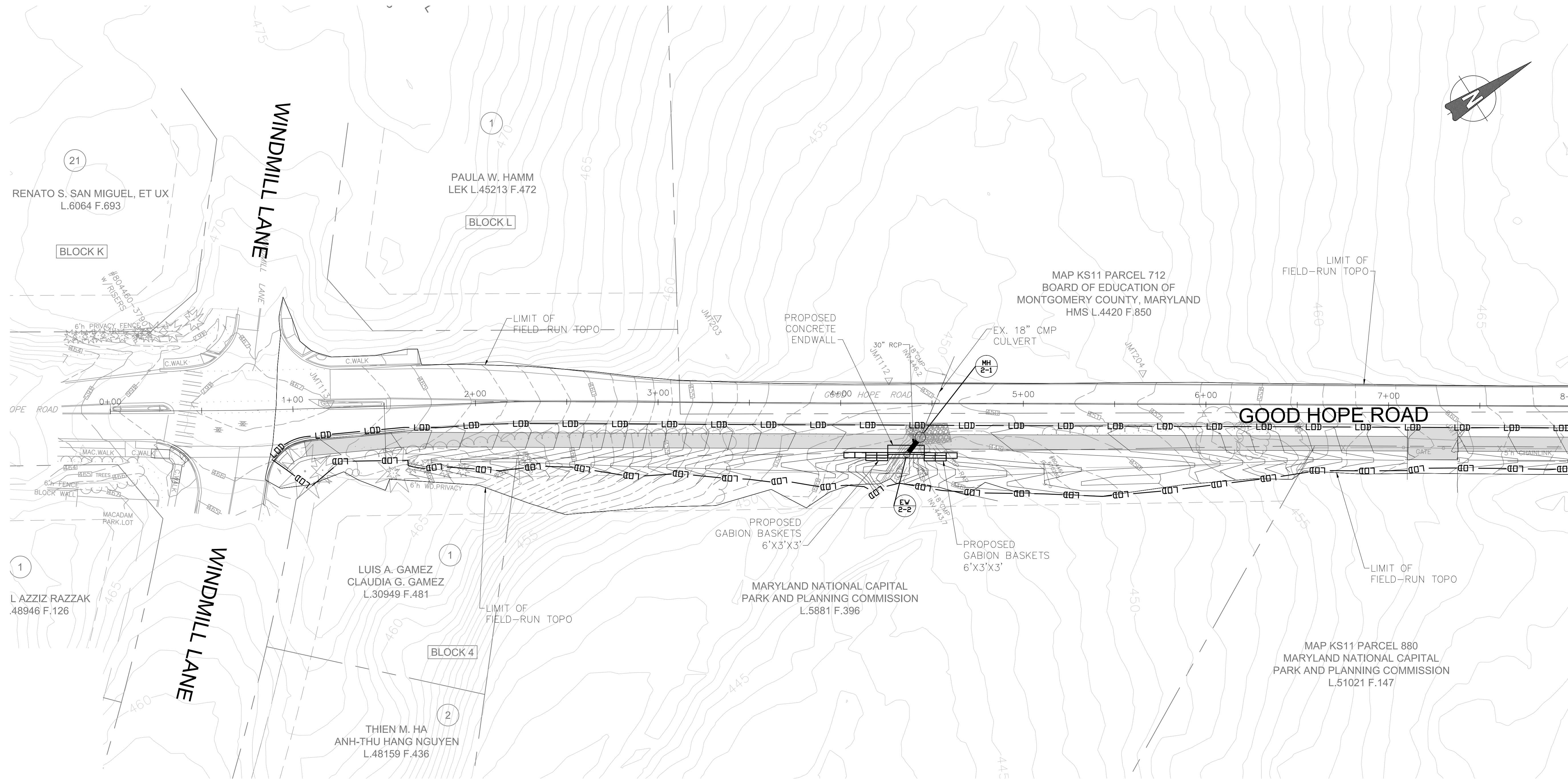
COORDINATE ALL TREE PRESERVATION ACTIVITIES WITH EROSION & SEDIMENT CONTROL ACTIVITIES AND THE COUNTY ARBORIST AND CONSTRUCTION INSPECTOR.

1. PLACE TREE PROTECTION FENCE AS INDICATED ON THE PLANS AND AS PER THE DIRECTION OF THE COUNTY ARBORIST AND CONSTRUCTION INSPECTOR PRIOR TO CONSTRUCTION ACTIVITIES.
2. FOR UNDERGROUND UTILITY CONSTRUCTION, ALL TREE PROTECTION MEASURES AND EXCAVATION OPERATIONS SHALL HAVE ADDITIONAL SUPERVISION PROVIDED BY THE COUNTY ARBORIST. UTILITY WORK SHALL BE CONDUCTED SO AS TO AVOID INJURY TO THE TREE TRUNKS, BRANCHES, AND ROOTS.
3. MAINTAIN WELL-DEFINED AND MARKED PEDESTRIAN WALKWAYS DURING CONSTRUCTION AND DO NOT ALLOW PEDESTRIAN TRAFFIC OVER TREE ROOTS.
4. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE OF A STREET TREE WITHOUT THE COUNTY ARBORIST'S PERMISSION: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT; AND BLACKTOP, AND TRENCHING.
5. NO HEAVY EQUIPMENT SHALL BE USED TO REMOVE EXISTING HARDSCAPE WITHIN THE DRIPLINE OF AN EXISTING STREET TREE. EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES, AND ROOTS.
6. NO ROOTS GREATER THAN TWO (2) INCHES IN DIAMETER SHALL BE CUT WITHOUT THE PERMISSION OF THE COUNTY ARBORIST.
7. PERFORM AERATION OPERATIONS AROUND TREE ROOTS AND GRASS PANEL AREAS TO IMPROVE DRAINAGE IN COMPACTED SOILS.

8. PROVIDE WATER, ADDITIONAL FERTILIZER, AND ORGANIC AMENDMENTS TO PLANTED AREAS THAT ARE EXPECTED TO REMAIN, PRIOR TO, DURING, AND POST-CONSTRUCTION. DO NOT ALLOW TREES TO BECOME WATER-STRESSED DURING OR POST-CONSTRUCTION.
9. AVOID CAUSING CHANGES TO PH IN SOILS ASSOCIATED WITH PLANTED AREAS. MATERIALS PLACED IN CLOSE PROXIMITY TO TREE ROOTS SHOULD BE AS SELF-CONTAINED AS POSSIBLE TO PREVENT FUTURE LEACHING OF MATERIALS AND CHEMICALS INTO SOILS.
10. MINIMIZE EXPOSURE OF ROOTS DURING CONSTRUCTION WHEN WORK IS PERFORMED IN COLD OR HOT WEATHER.

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management: BIOSWALES, PERMEABLE PAVEMENT	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.		

35% DESIGN NOT FOR CONSTRUCTION	RJM ENGINEERING	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				EROSION AND SEDIMENT CONTROL SC-03 DETAIL SHEET GOOD HOPE ROAD SIDEPAATH	
		RECOMMENDED FOR APPROVAL				SCALE: NOT TO SCALE	
		Chief, Design Section APPROVED _____ Date _____				DATE: NOVEMBER 2019	
		Chief, Division of Transportation Engineering APPROVED _____ Date _____				Project No. : 501902 SHEET 20 of 75	
		Designed by: _____ Drawn by: _____ Checked by: _____					
NO.	REVISION	DATE	BY				



MATCHLINE - SEE SHEET NO. SC-05

LEGEND

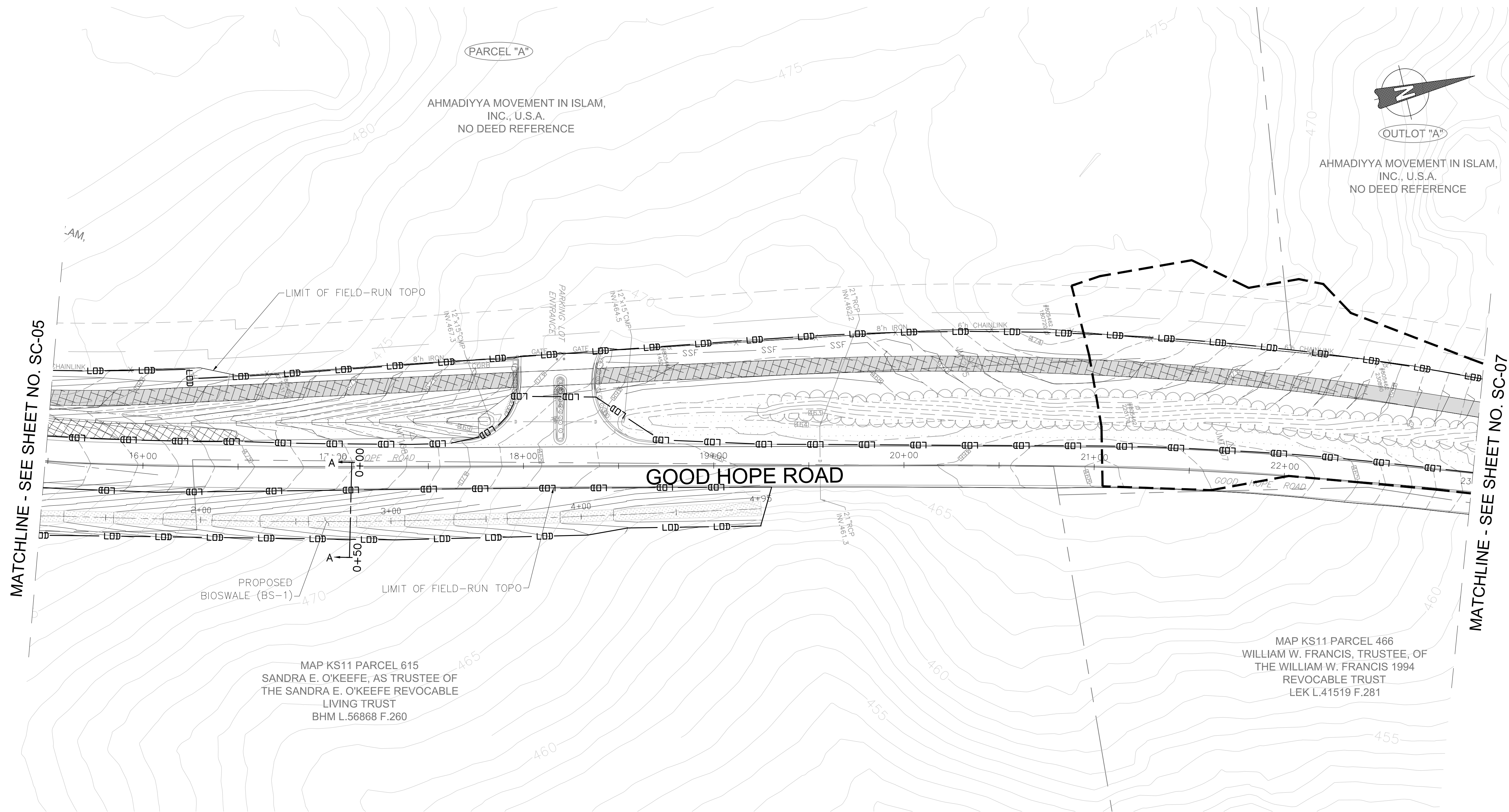
LIMIT OF DISTURBANCE — LOD — LOD —
EX. MAJOR CONTOUR - - - - -
EX. MINOR CONTOUR - - - - -
PROP. MAJOR CONTOUR ————
PROP. MINOR CONTOUR ————
DRAINAGE AREA - - - - -

STANDARD INLET PROTECTION [Symbol] SIP
PAVEMENT REMOVAL [Symbol]
PROPOSED ASPHALT [Symbol]
PROPOSED PERMEABLE PAVEMENT [Symbol]

GENERAL NOTES:

1. FOLLOWING THE INSTALLATION OF SEDIMENT CONTROLS, WRITTEN APPROVAL MUST BE OBTAINED FROM THE MCDPS INSPECTOR PRIOR TO PROCEEDING WITH WORK.
2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO A MCDPS-APPROVED SEDIMENT CONTROL DEVICE.
3. THE DEPOSITION OF ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL OUTSIDE OF THE WORK AREA IS STRICTLY PROHIBITED. ALL SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS, OUTSIDE OF THE WORK AREA, MUST BE IMMEDIATELY REMOVED IF NOT DIVERTED TO A MCDPS-APPROVED SEDIMENT CONTROL DEVICE.
4. EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE TO REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED IN WRITING BY THE MCDPS INSPECTOR. STABILIZE ANY DISTURBED AREAS RESULTING FROM REMOVAL OF THE SEDIMENT CONTROL DEVICES.
5. "DRY WEATHER FORECAST PER NOAA" SHALL BE CONSTRUED TO BE A FORECAST SHOWING A LIKELIHOOD OF PRECIPITATION AS BEING LESS THAN 20%.
6. AREAS OF SAME DAY STABILIZATION SHALL BE STABILIZED AS FOLLOWS: GRADED AGGREGATE BASE (OR PAVEMENT) FOR AREAS TO BE PAVED; SOIL STABILIZATION MATTING (SSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS.

35% DESIGN NOT FOR CONSTRUCTION	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		EROSION AND SEDIMENT CONTROL SC-04 PLAN SHEET GOOD HOPE ROAD SIDEPATH SCALE: 1"=30' DATE: NOVEMBER 2019
						RECOMMENDED FOR APPROVAL		
RJM ENGINEERING	[Symbol]	[Symbol]	[Symbol]	[Symbol]	[Symbol]	Chief, Design Section APPROVED		Date
						Chief, Division of Transportation Engineering		
Designed by: KJS		Drawn by: KJS		Checked by: DZ		Project No.: 501902		SHEET 21 of 75
NO.	REVISION	DATE	BY					



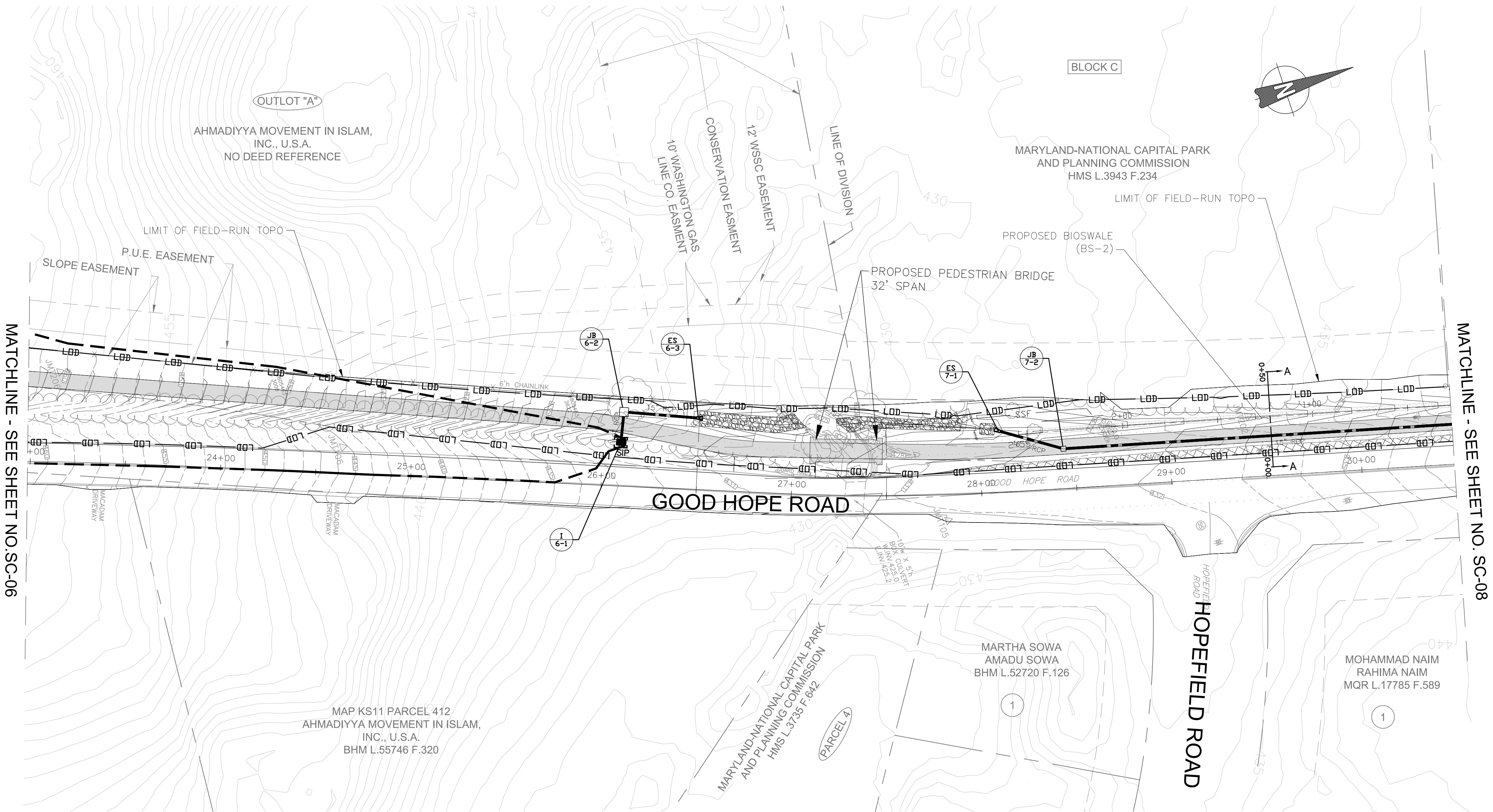
LEGEND

LIMIT OF DISTURBANCE	— LOD — LOD —
EX. MAJOR CONTOUR	- - - - -
EX. MINOR CONTOUR	- - - - -
PROP. MAJOR CONTOUR	_____
PROP. MINOR CONTOUR	_____
DRAINAGE AREA	- - - - -
STANDARD INLET PROTECTION	SIP
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35% DESIGN NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				SC-06 PLAN SHEET GOOD HOPE ROAD SIDEPATH SCALE: 1"=30' DATE: NOVEMBER 2019
		RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED _____ Date _____ Chief, Division of Transportation Engineering _____ Designed by: <u>KJS</u> Drawn by: <u>KJS</u> Checked by: <u>DZ</u>				
NO.	REVISION	DATE	BY			Project No. : <u>501902</u> SHEET <u>23</u> of <u>75</u>



MATCHLINE - SEE SHEET NO.SC-06

MATCHLINE - SEE SHEET NO. SC-08

LEGEND

- LIMIT OF DISTURBANCE — LOD — LOD —
- EX. MAJOR CONTOUR - - - - -
- EX. MINOR CONTOUR - - - - -
- PROP. MAJOR CONTOUR _____
- PROP. MINOR CONTOUR _____
- DRAINAGE AREA - - - - -
- STANDARD INLET PROTECTION [Symbol] SIP
- PAVEMENT REMOVAL [Hatched Pattern]
- PROPOSED ASPHALT [Solid Grey]
- PROPOSED PERMEABLE PAVEMENT [Cross-hatched Pattern]

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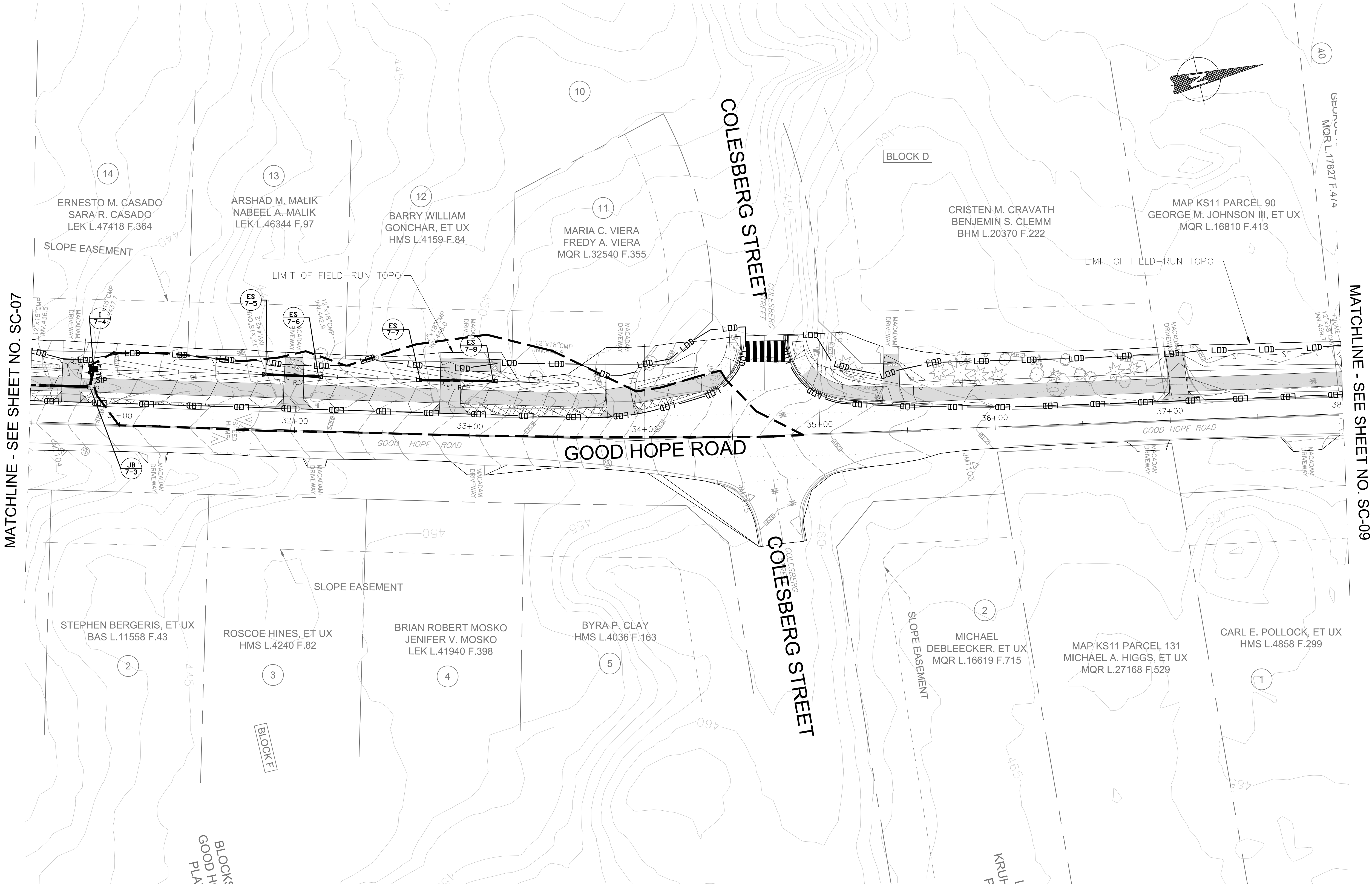
<div>35% DESIGN NOT FOR CONSTRUCTION</div> <div>RJM ENGINEERING</div>	<table><tr><td>NO.</td><td>REVISION</td><td>DATE</td><td>BY</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	NO.	REVISION	DATE	BY																																									<div>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</div> <div>RECOMMENDED FOR APPROVAL</div> <div>Chief, Design Section APPROVED _____ Date _____</div> <div>Chief, Division of Transportation Engineering _____ Designed by: KJS Drawn by: KJS Checked by: DZ</div>	<div>SC-07 PLAN SHEET GOOD HOPE ROAD SIDEPATH</div> <div>0 30' 60' SCALE: 1"=30' DATE: NOVEMBER 2019 Project No. : 501902 SHEET 24 of 75</div>
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GENERAL NOTES:

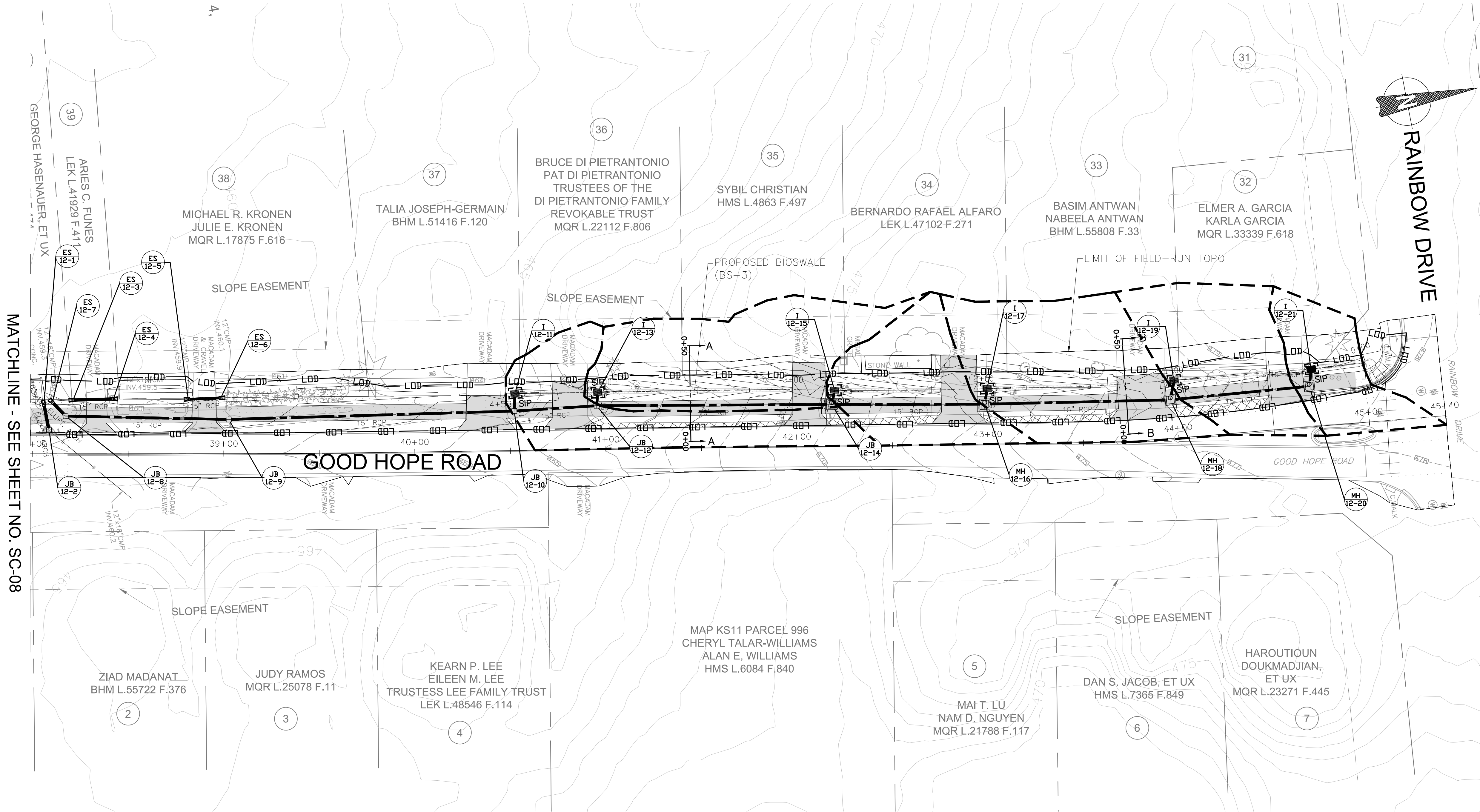
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LEGEND

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- EX. MINOR CONTOUR - - - - -
- PROP. MAJOR CONTOUR _____
- PROP. MINOR CONTOUR _____
- DRAINAGE AREA - - - - -
- STANDARD INLET PROTECTION [] SIP
- PAVEMENT REMOVAL [Hatched Box]
- PROPOSED ASPHALT [Solid Grey Box]
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35% DESIGN NOT FOR CONSTRUCTION				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				SC-08 PLAN SHEET																											
								GOOD HOPE ROAD SIDEPATH																											
								 SCALE: 1"= 30' DATE: NOVEMBER 2019																											
NO.				REVISION				DATE				BY				Designed by: <u>KJS</u>				Drawn by: <u>KJS</u>				Checked by: <u>DZ</u>				Project No. : <u>501902</u>				SHEET <u>25</u> of <u>75</u>			



MATCHLINE - SEE SHEET NO. SC-08

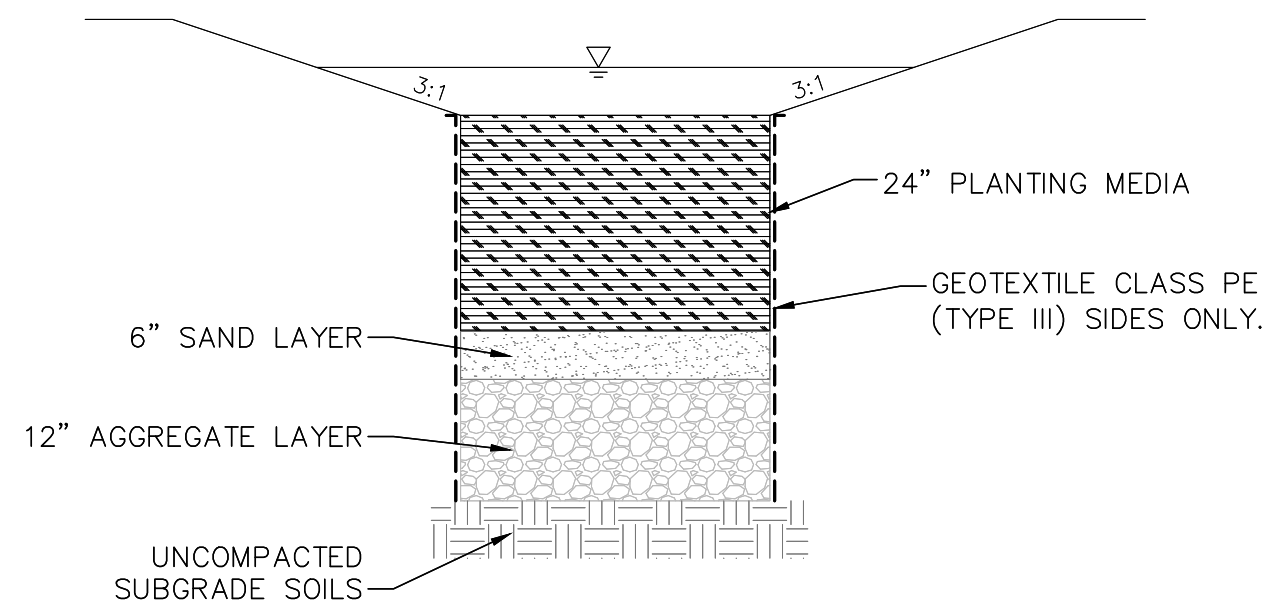
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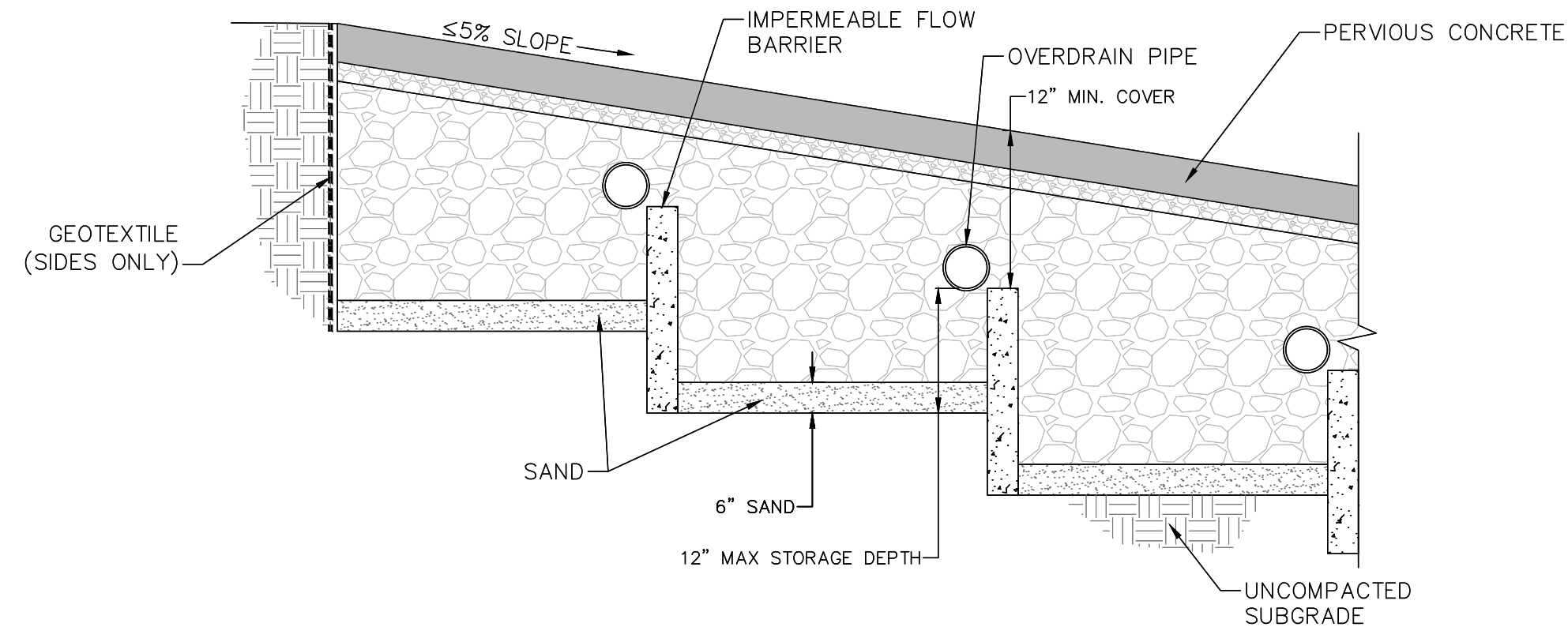
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- LIMIT OF DISTURBANCE — LOD — LOD —
- EX. MAJOR CONTOUR - - - - -
- EX. MINOR CONTOUR - - - - -
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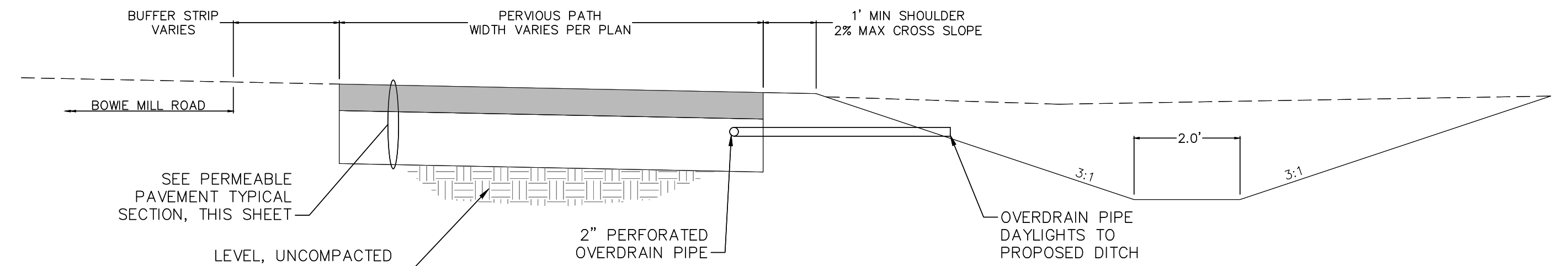
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		RECOMMENDED FOR APPROVAL			
		Chief, Design Section APPROVED	_____	Date	
RJM ENGINEERING		Chief, Division of Transportation Engineering	_____	Date	SCALE: 1" = 30' DATE: NOVEMBER 2019
		Designed by: KJS	Drawn by: KJS	Checked by: DZ	
		NO.	REVISION	DATE	



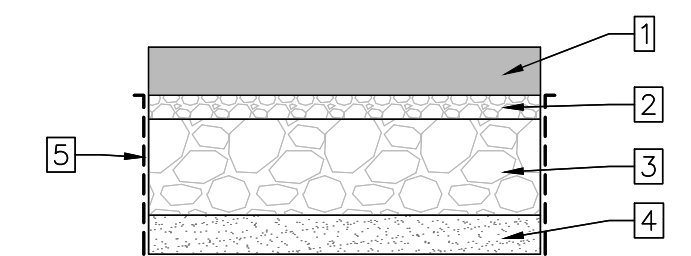
BIOSWALE - TYPICAL SECTION
NOT TO SCALE



PERMEABLE PAVEMENT - STEPPED BASE TYPICAL SECTION
NOT TO SCALE

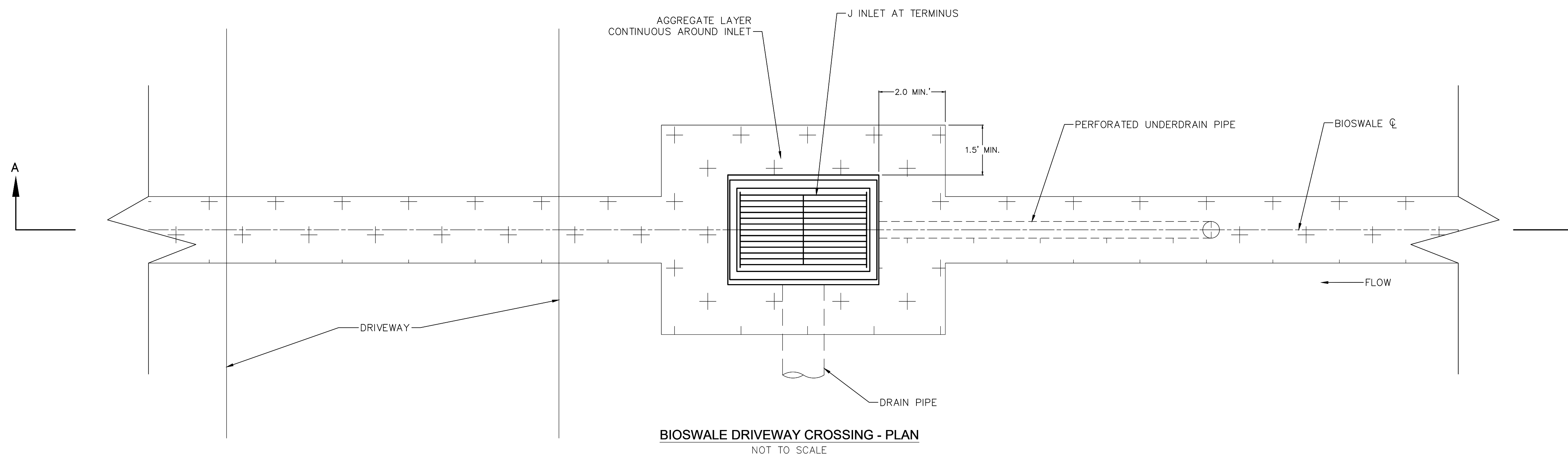


PERMEABLE PAVEMENT - TYPICAL BIKE PATH SECTION
NOT TO SCALE

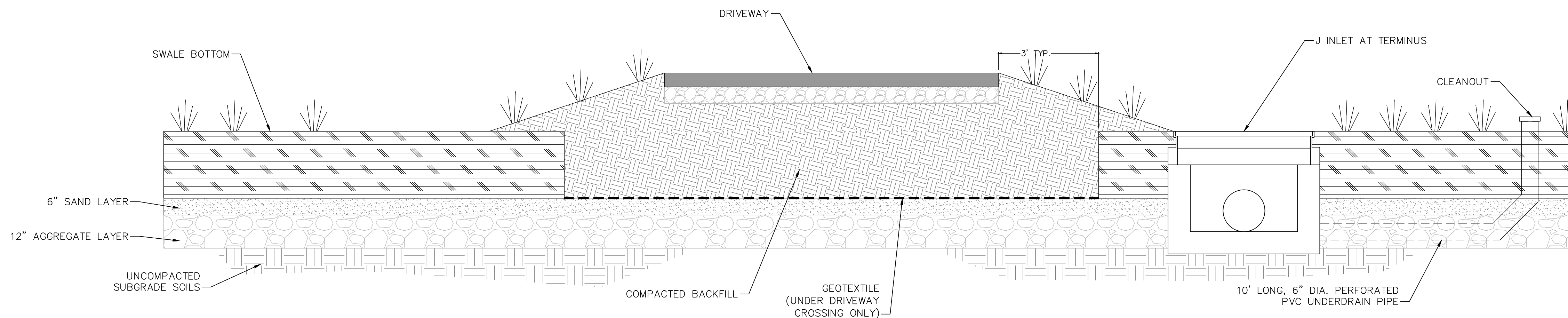


- 1 4" POROUS CONCRETE
- 2 2" AGGREGATE BASE CONSISTING OF WASHED AASHTO NO. 3 COURSE AGGREGATE AND NO. 57 STONE
- 3 VARIABLE DEPTH CLEAN NO. 7 STONE. MINIMUM DEPTH 12"
- 4 4" SAND, WASHED ASTM C-33 FINE AGGREGATE CONCRETE SAND
- 5 GEOTEXTILE CLASS PE (TYPE III) SIDES ONLY. MIRAFI 140 N OR MCDPS APPROVED EQUIVALENT

PERMEABLE PAVEMENT - TYPICAL PAVEMENT SECTION
NOT TO SCALE



BIOSWALE DRIVEWAY CROSSING - PLAN
NOT TO SCALE



BIOSWALE DRIVEWAY CROSSING - SECTION A-A
NOT TO SCALE

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GAITHERSBURG, MARYLAND

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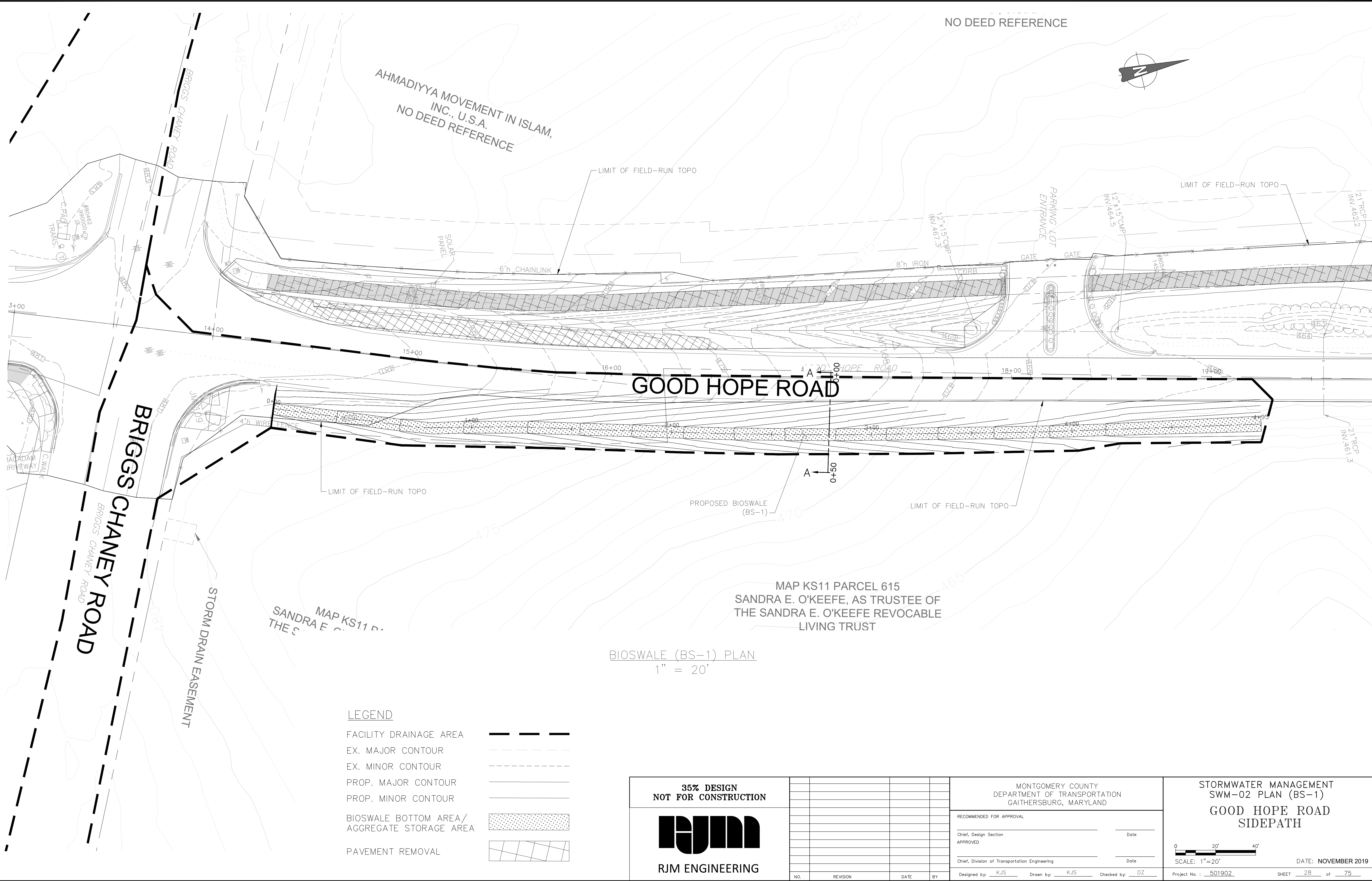
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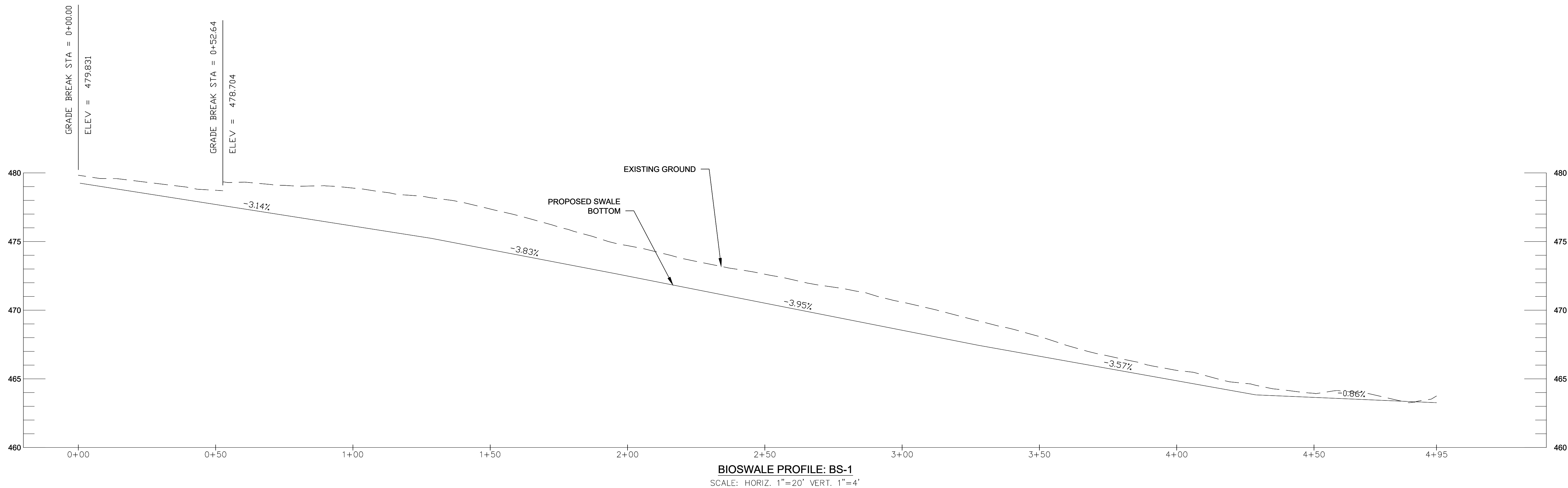
Designed by: KJS Drawn by: KJS Checked by: DZ

**STORMWATER MANAGEMENT
SWM-01 DETAIL SHEET
GOOD HOPE ROAD
SIDEPATH**

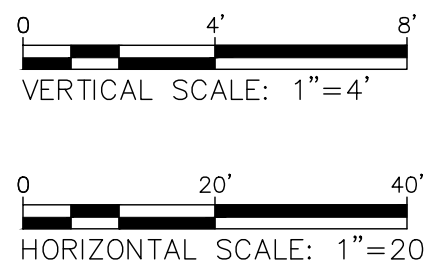
SCALE: NOT TO SCALE DATE: NOVEMBER 2019

Project No.: 501902 SHEET 27 of 75



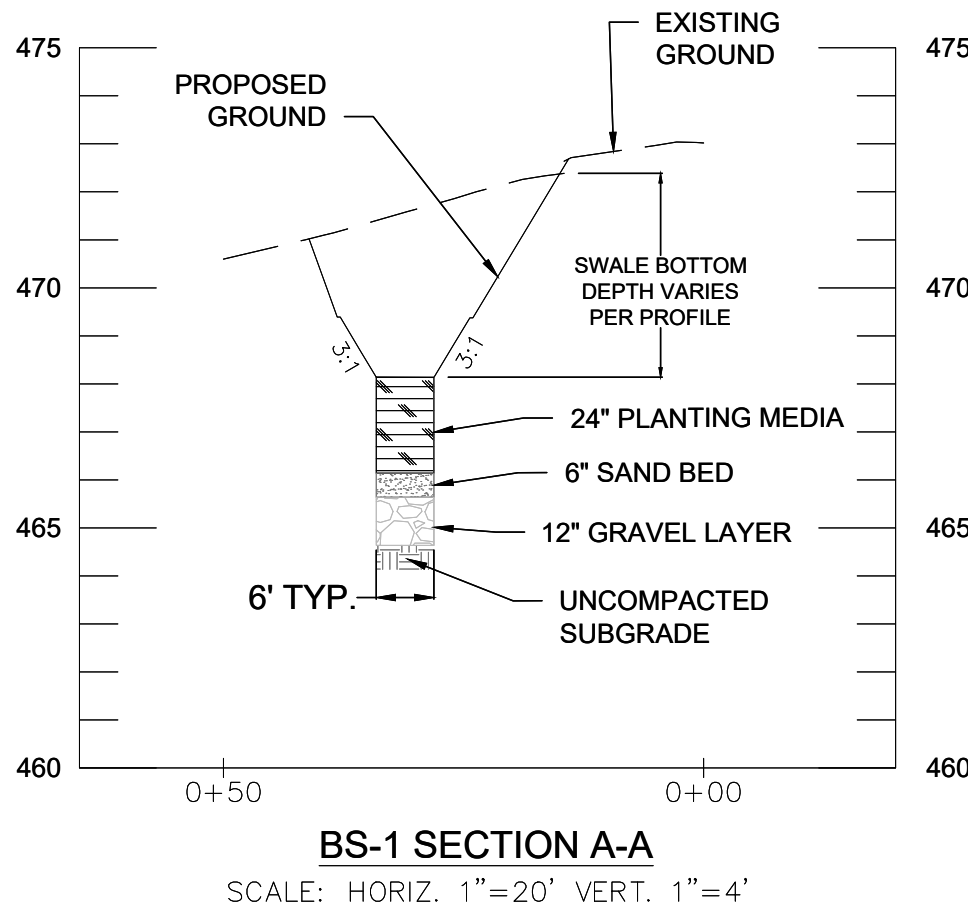


BIOSWALE PROFILE: BS-1
SCALE: HORIZ. 1"=20' VERT. 1"=4'



NOTES:


- GRAVEL LAYER: THE GRAVEL LAYER MUST MEET MSHA SIZE #7 (TABLE 901A), AND SHALL BE 12-INCHES IN DEPTH. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN FILTER MEDIA, EXCEPT AT DRIVEWAY CROSSINGS, AS SHOWN IN THE TYPICAL SECTION. THE GRAVEL MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.
- PLANTING MEDIA: THE PLANTING MEDIA SHALL BE 24 INCHES THICK AND CONFORM TO MONTGOMERY COUNTY MICRO-BIORETENTION FACILITY PLANTING MEDIA SPECIFICATIONS:
1/3 PERLITE OR SOLITE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL.
THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA:
CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
THE FIRST LAYER OF THE PLANTING MEDIUM SHALL BE LIGHTLY TILLED TO MIX IT INTO THE 6-INCH SAND LAYER, SO AS NOT TO CREATE A DEFINITIVE BOUNDARY. THE PLANTING BED SHALL BE FLOODED AFTER PLACEMENT. ANY SETTLEMENT THAT OCCURS SHALL BE FILLED BACK TO THE DESIGN ELEVATION.
- SAND BED: A MINIMUM 6-INCH FINE AGGREGATE SAND LAYER SHALL BE PROVIDED BELOW THE PLANTING MEDIA. ASTM C33 OR AASHTO M6 FINE AGGREGATE CONCRETE SAND IS REQUIRED PER MONTGOMERY COUNTY SAND SPECIFICATIONS.
- PERFORATED PIPE MUST HAVE PERFORATIONS 3/8 INCH IN DIAMETER AND LOCATED 4 INCHES ON CENTER, EVERY 90 DEGREES AROUND THE PIPE. PERFORATED PIPE MUST BE AT LEAST 12 INCHES INSIDE THE FILTER MEDIA. IF THIS CANNOT BE ACHIEVED, THEN SIDES OF THE FILTER MEDIA MUST BE LINED WITH FILTER FABRIC. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE. AN ACCEPTABLE ALTERNATIVE TO PERFORATED PIPE IS 6" DIAMETER SCHEDULE 40 SLOTTED PVC PIPE WITH 0.125 INCH SLOTS. SLOTS SHALL BE 0.125 INCHES WIDE AND A MINIMUM OF 1.9 INCHES IN LENGTH, WITH A MINIMUM OF 4 SLOTS PER ROW AND 4 ROWS PER LINEAR FOOT OF PIPE.

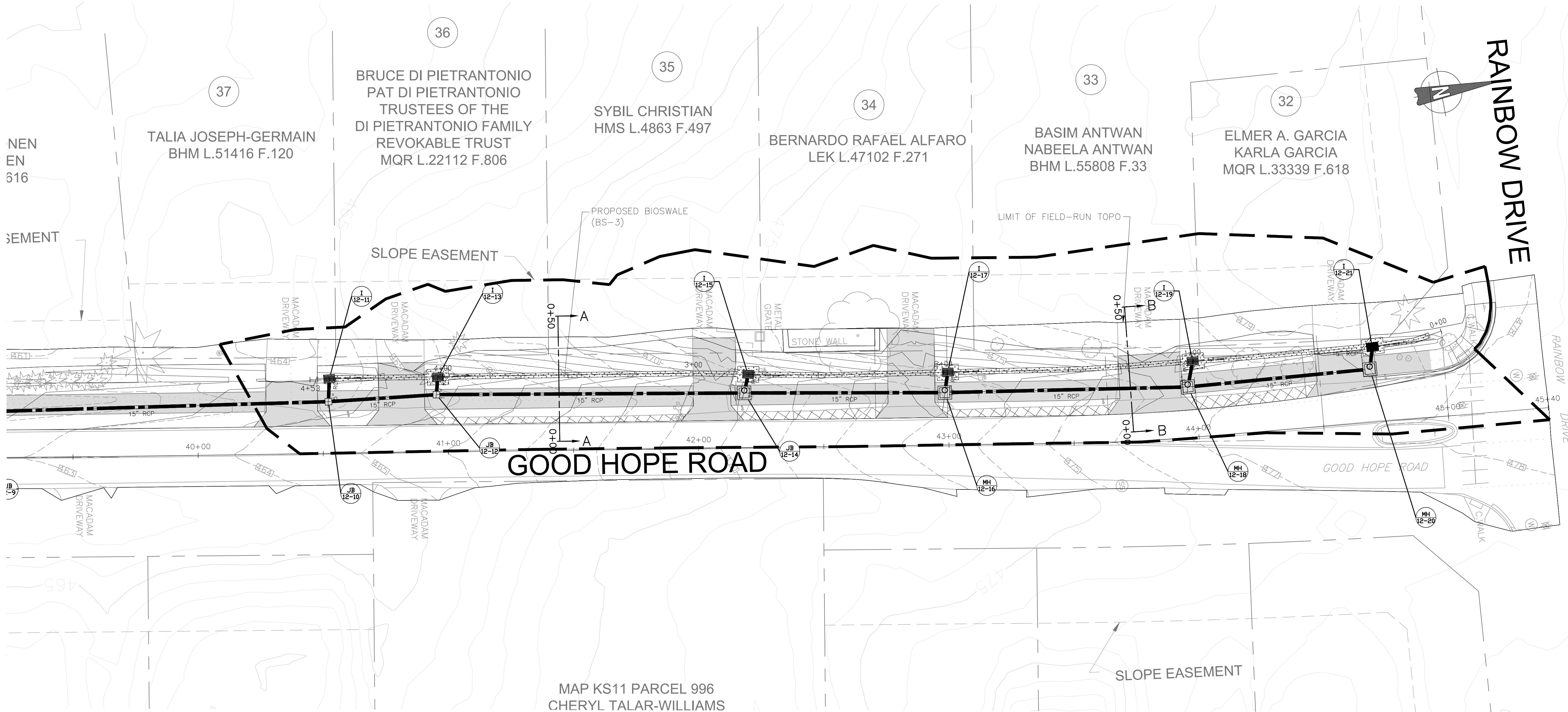


BS-1 SECTION A-A
SCALE: HORIZ. 1"=20' VERT. 1"=4'

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR INFILTRATION BERMS		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/ DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer. 1. Placement of gravel media and soil conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

SAND SPECIFICATIONS:
Washed ASTM C33 Fine Aggregate Concrete Sand is utilized for stormwater management applications in Montgomery County. In addition to the ASTM C33 specification, sand must meet ALL of the following conditions: 1. Sand must meet gradation requirements for ASTM C-33 Fine Aggregate Concrete Sand. MSHTO M-6 gradation is also acceptable. 2. Sand must be silica based ... no limestone based products may be used. If the material is white or gray in color, it is probably not acceptable. 3. Sand must be clean. Natural, unwashed sand deposits may not be used. Likewise, sand that has become contaminated by improper storage or installation practices will be rejected. 4. Manufactured sand or stone dust is not acceptable under any circumstance.

<div>35% DESIGN NOT FOR CONSTRUCTION</div> <div></div> <div>RJM ENGINEERING</div>					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	STORMWATER MANAGEMENT SWM-03 PROFILE (BS-1)			
						RECOMMENDED FOR APPROVAL	GOOD HOPE ROAD SIDEPATH		
						Chief, Design Section APPROVED	Date		
						Chief, Division of Transportation Engineering	Date		
						Designed by: <u>KJS</u>	Drawn by: <u>KJS</u>	Checked by: <u>DZ</u>	Project No.: <u>501902</u>
									SHEET <u>29</u> of <u>75</u>
									SCALE: AS NOTED
									DATE: NOVEMBER 2019



LEGEND

FACILITY DRAINAGE AREA — — — — —

EX. MAJOR CONTOUR - - - - -

EX. MINOR CONTOUR - - - - -

PROP. MAJOR CONTOUR — — — — —

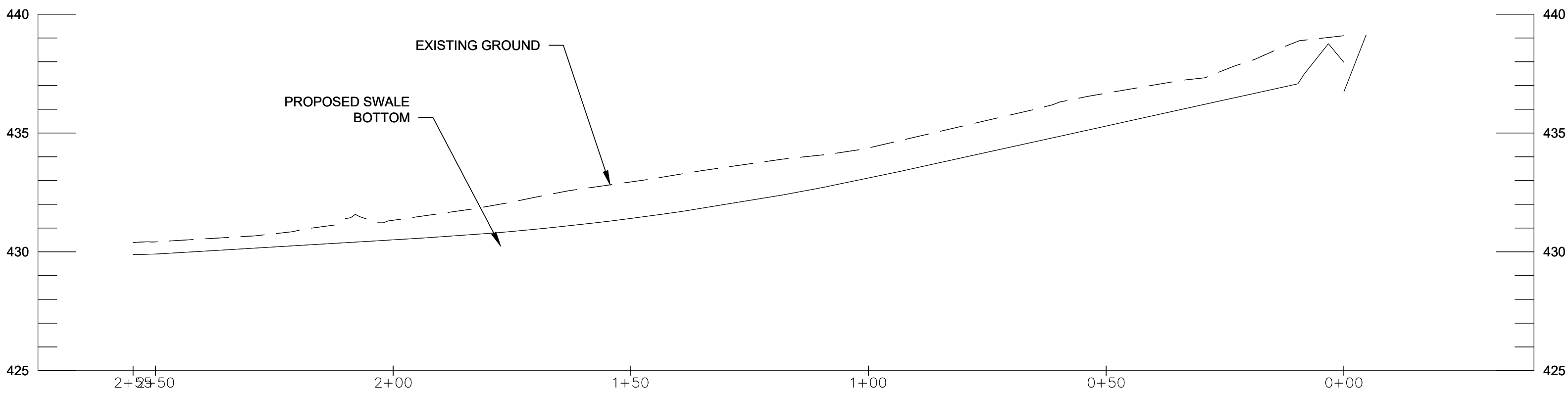
PROP. MINOR CONTOUR — — — — —

BIOSWALE BOTTOM AREA/
AGGREGATE STORAGE AREA [Stippled Pattern]

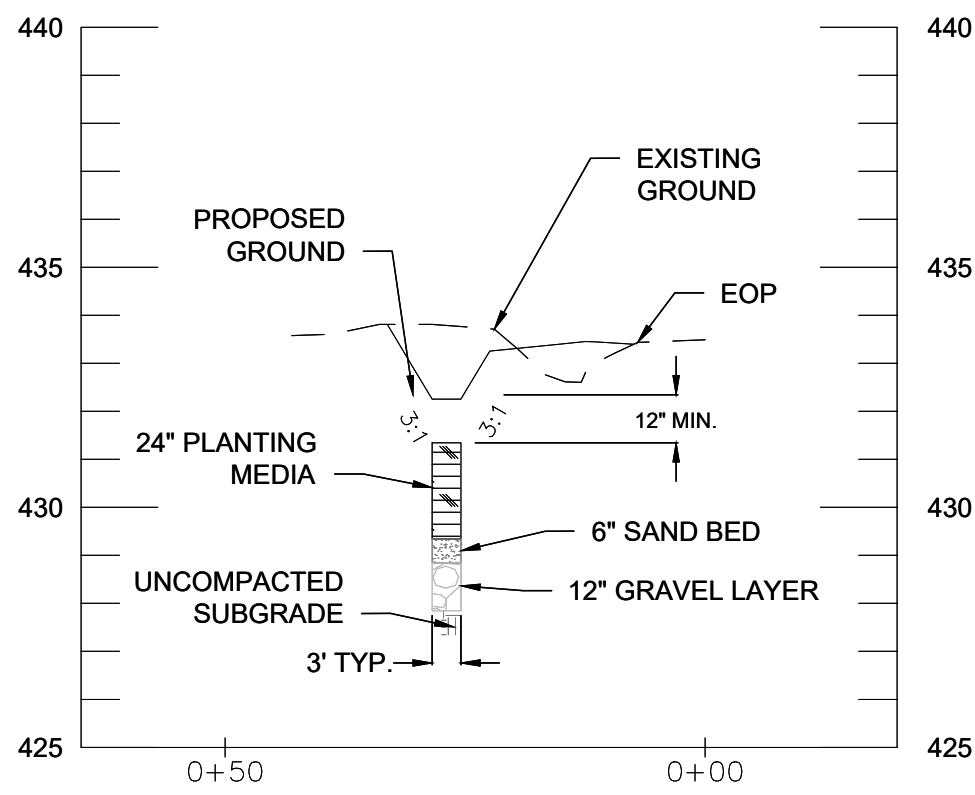
PAVEMENT REMOVAL [Hatched Pattern]

35% DESIGN NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		STORMWATER MANAGEMENT SWM-05 PLAN (BS-3) GOOD HOPE ROAD SIDEPATH
		RECOMMENDED FOR APPROVAL		
		Chief, Design Section APPROVED _____ Date _____	Chief, Division of Transportation Engineering APPROVED _____ Date _____	
NO. REVISION DATE BY		Designed by: <u>KJS</u> Drawn by: <u>KJS</u> Checked by: <u>DZ</u>		Project No.: <u>501902</u> SHEET <u>31</u> of <u>75</u>

SCALE: 1"=20' DATE: NOVEMBER 2019



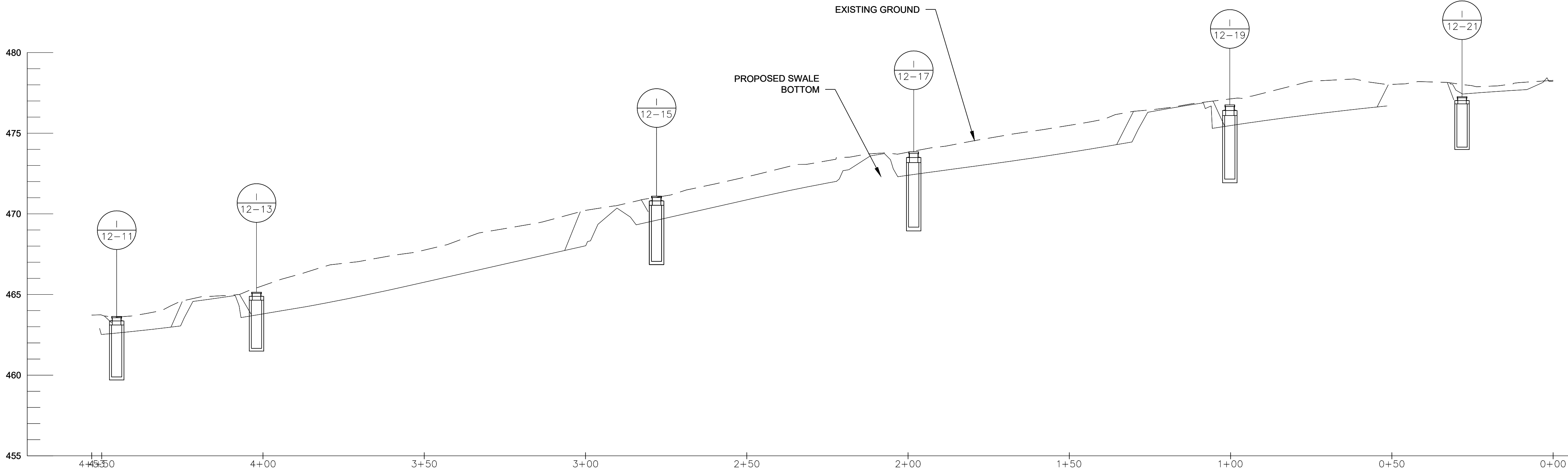
BIOSWALE (BS-2) PROFILE
SCALE: HORIZ. 1"=20' VERT. 1"=4'



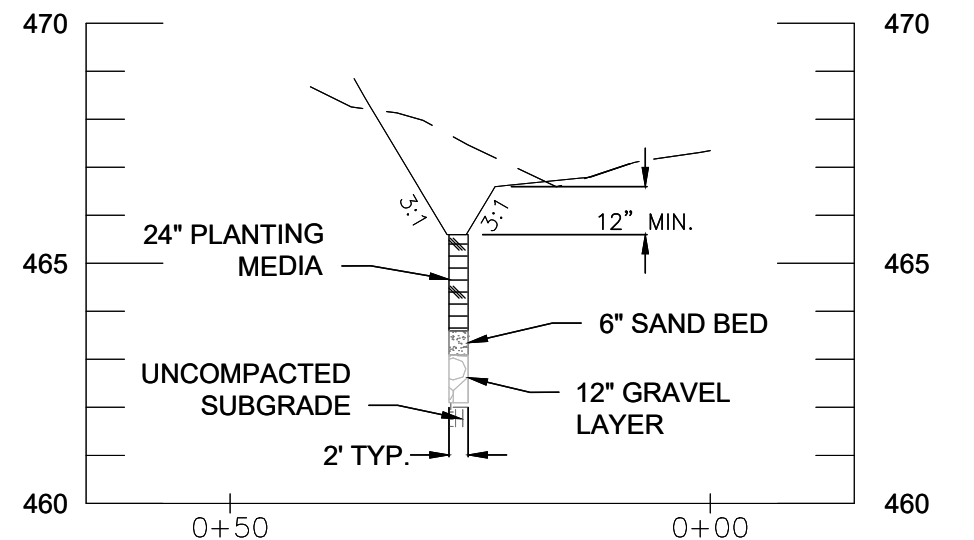
BS-2 SECTION A-A
SCALE: HORIZ. 1"=20' VERT. 1"=4'

NOTES:

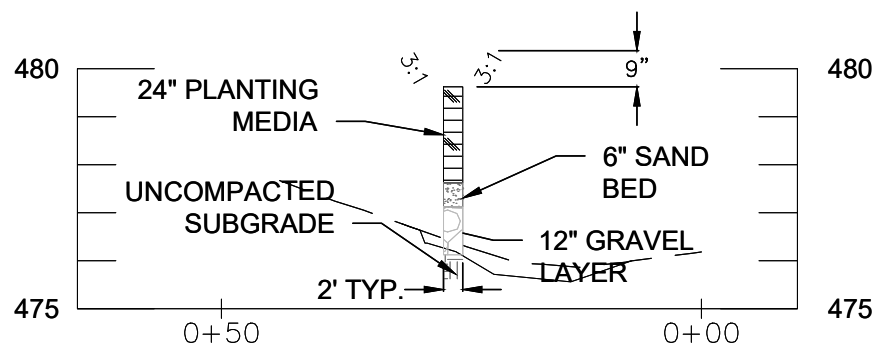
- GRAVEL LAYER: THE GRAVEL LAYER MUST MEET MSHA SIZE #7 (TABLE 901A), AND SHALL BE 12-INCHES IN DEPTH. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN FILTER MEDIA, EXCEPT AT DRIVEWAY CROSSINGS, AS SHOWN IN THE TYPICAL SECTION. THE GRAVEL MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.
- PLANTING MEDIA: THE PLANTING MEDIA SHALL BE 24 INCHES THICK AND CONFORM TO MONTGOMERY COUNTY MICRO-BIORETENTION FACILITY PLANTING MEDIA SPECIFICATIONS:
1/3 PERLITE OR SOLITE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL.
THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA:
CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
THE FIRST LAYER OF THE PLANTING MEDIUM SHALL BE LIGHTLY TILLED TO MIX IT INTO THE 6-INCH SAND LAYER, SO AS NOT TO CREATE A DEFINITIVE BOUNDARY. THE PLANTING BED SHALL BE FLOODED AFTER PLACEMENT. ANY SETTLEMENT THAT OCCURS SHALL BE FILLED BACK TO THE DESIGN ELEVATION.
- SAND BED: A MINIMUM 6-INCH FINE AGGREGATE SAND LAYER SHALL BE PROVIDED BELOW THE PLANTING MEDIA. ASTM C33 OR AASHTO M6 FINE AGGREGATE CONCRETE SAND IS REQUIRED PER MONTGOMERY COUNTY SAND SPECIFICATIONS.
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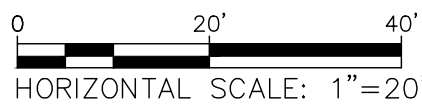
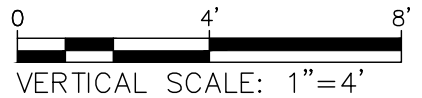
BIOSWALE (BS-3) PROFILE
SCALE: HORIZ. 1"=20' VERT. 1"=4'



BS-3 SECTION A-A
SCALE: HORIZ. 1"=20' VERT. 1"=4'



BS-3 SECTION B-B
SCALE: HORIZ. 1"=20' VERT. 1"=4'



SAND SPECIFICATIONS:

- Washed ASTM C33 Fine Aggregate Concrete Sand is utilized for stormwater management applications in Montgomery County. In addition to the ASTM C33 specification, sand must meet ALL of the following conditions:
- Sand must meet gradation requirements for ASTM C-33 Fine Aggregate Concrete Sand. MSHTO M-6 gradation is also acceptable.
 - Sand must be silica based ... no limestone based products may be used. If the material is white or gray in color, it is probably not acceptable.
 - Sand must be clean. Natural, unwashed sand deposits may not be used. Likewise, sand that has become contaminated by improper storage or installation practices will be rejected.
 - Manufactured sand or stone dust is not acceptable under any circumstance.

BS-2

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR INFILTRATION BERMS		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/ DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Placement of gravel media and soil conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

BS-3

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR INFILTRATION BERMS		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/ DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Placement of gravel media and soil conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

35% DESIGN
NOT FOR CONSTRUCTION



RJM ENGINEERING

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

Designed by: KJS

Drawn by: KJS

Checked by: DZ

STORMWATER MANAGEMENT
SWM-06 PROFILE (BS-2 & BS-3)

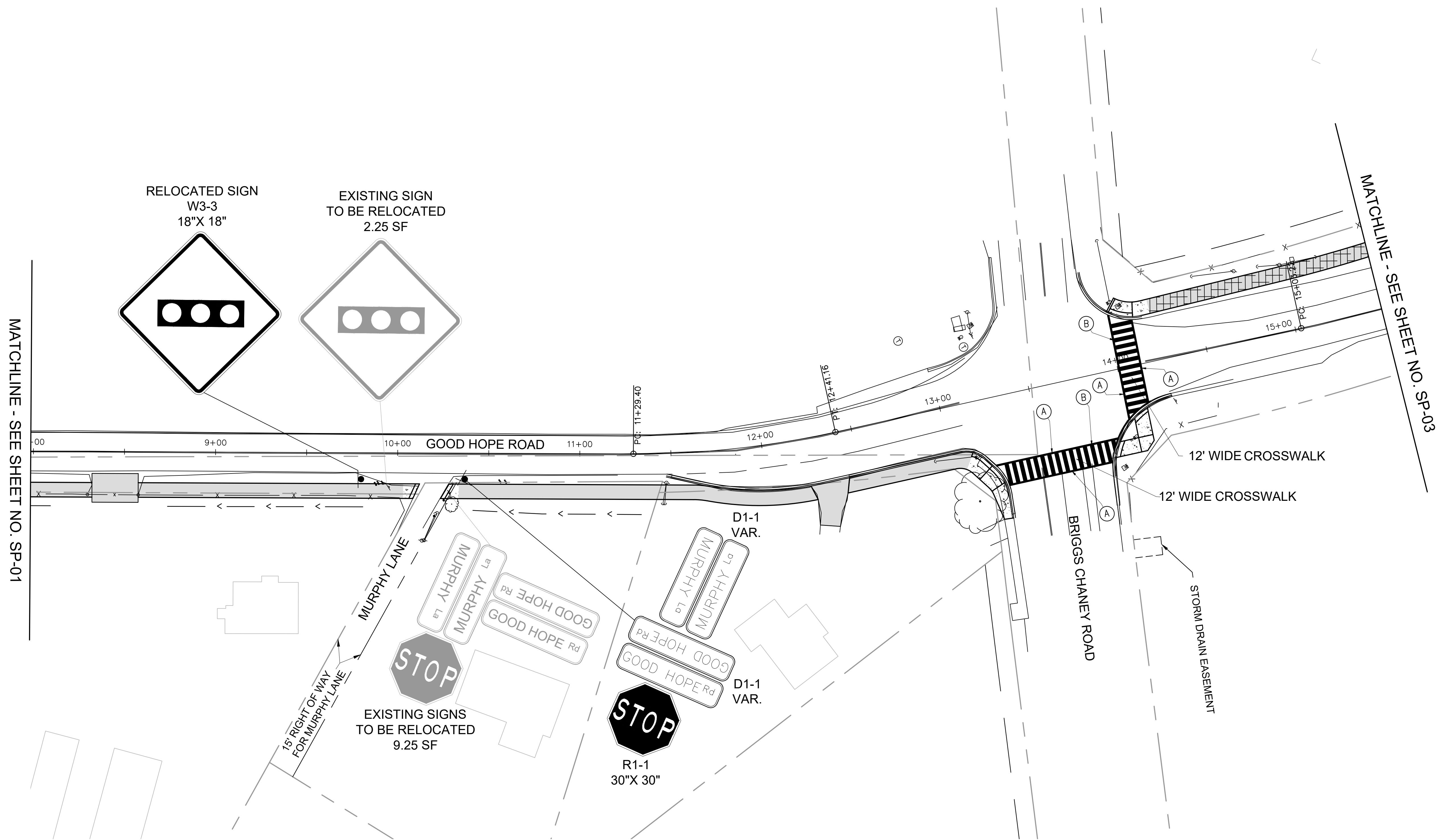
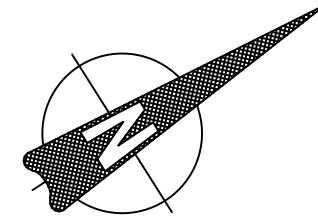
GOOD HOPE ROAD
SIDEPATH

SCALE: AS NOTED

DATE: NOVEMBER 2019

Project No.: 501902

SHEET 32 of 75



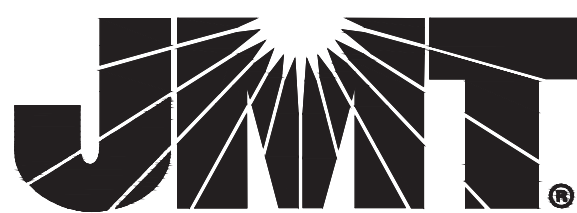
SIGNING LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

- (A) SOLID SINGLE 12" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (24" SPACING)

DRAFT
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

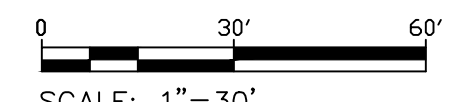
Chief, Division of Transportation Engineering

Date

Designed by: GIF Drawn by: GIF Checked by: MDS

SN-02 SIGNING & MARKING PLAN

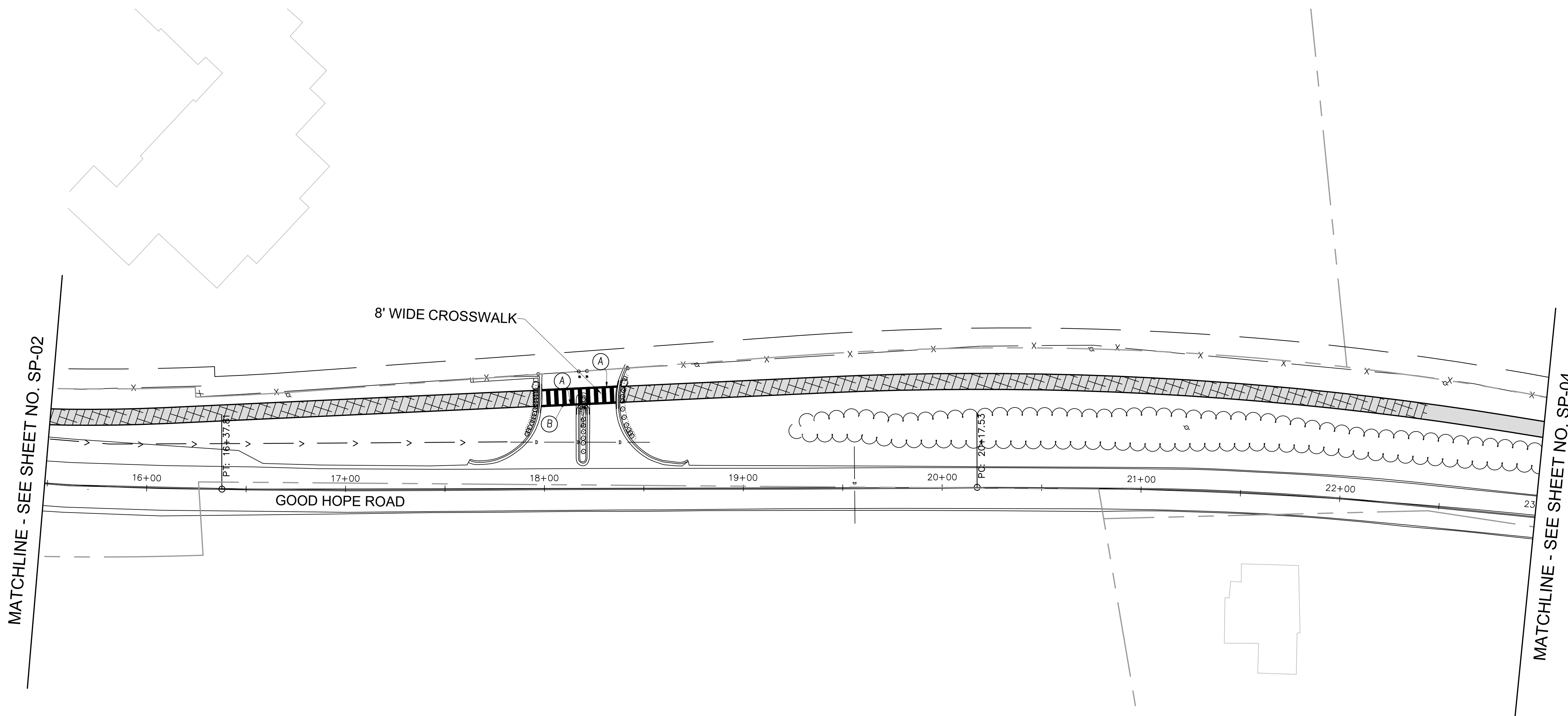
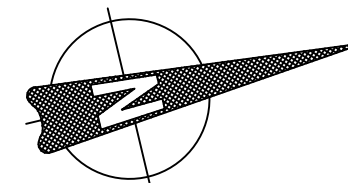
GOOD HOPE ROAD
SIDEWALK



SCALE: 1"=30'

DATE: NOVEMBER 2019

Project No. : 501902 SHEET 34 of 75





SIGNING LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

- (A) SOLID SINGLE 12" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (24" SPACING)

DRAFT NOT FOR CONSTRUCTION								MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				SN-03 SIGNING & MARKING PLAN											
								RECOMMENDED FOR APPROVAL				<div>GOOD HOPE ROAD SIDEWALK</div> <div> SCALE: 1"=30'</div> <div>DATE: NOVEMBER 2019</div>											
								_____ Chief, Design Section APPROVED								_____ Date							
								_____ Chief, Division of Transportation Engineering								_____ Date							
								Designed by: <u> GIF </u>				Drawn by: <u> GIF </u>				Checked by: <u> MDS </u>							
								NO.				REVISION				DATE				BY			

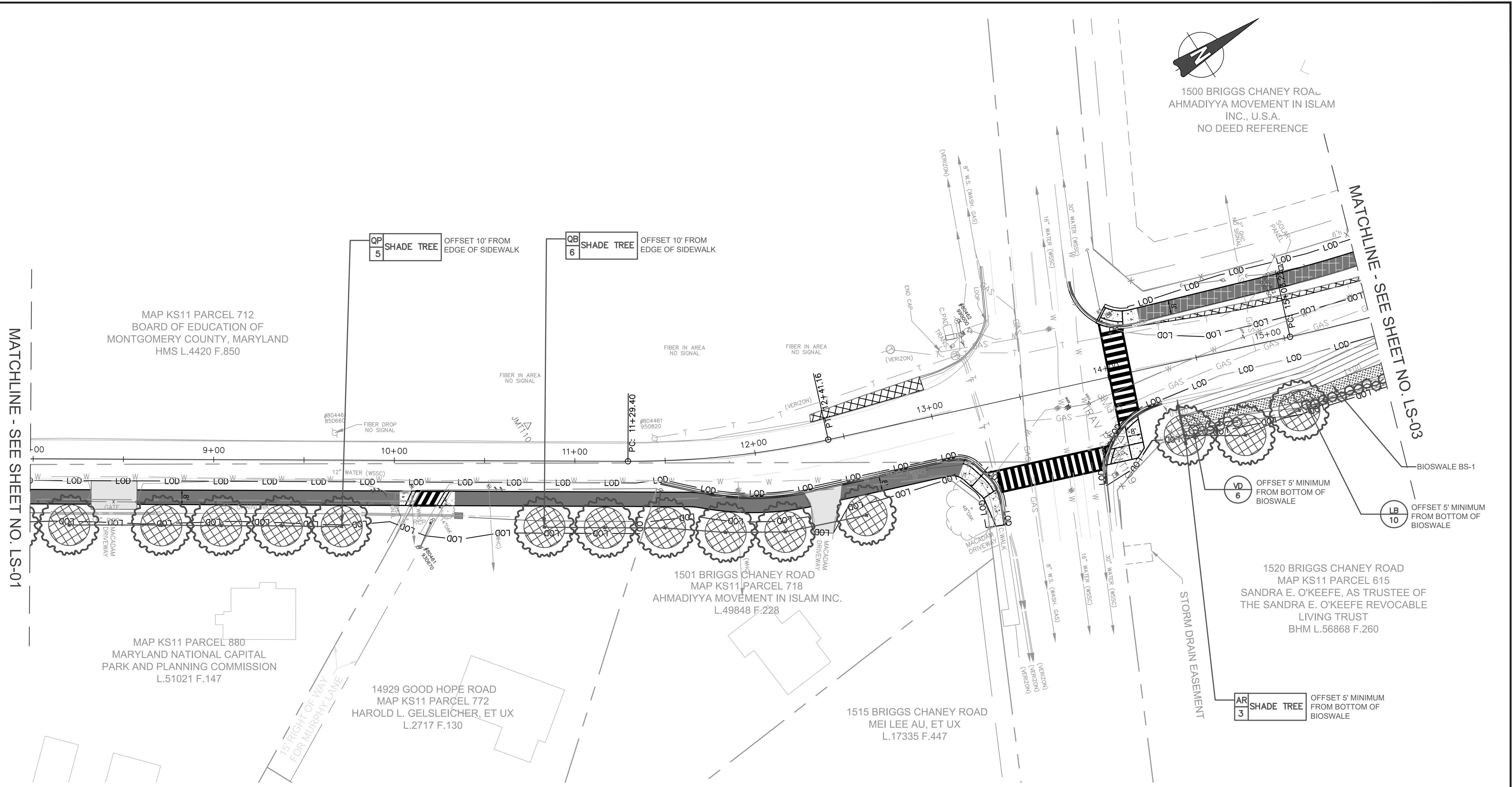


*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

DPS APPROVAL OF A SEDIMENT CONTROL STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES.

QA	SHADE TREE
1	

DATE: NOVEMBER 2019



- NOTE:
1. TREATMENT A: TREE TO REMAIN.
 2. TREATMENT B: REMOVE TREE INCLUDING STUMP.
 3. REFER TO SIGNING AND STRIPING PLAN FOR PAVEMENT MARKING DETAILS.
 4. CONTRACTOR SHALL FIELD ADJUST GRADING TO PROVIDE SMOOTH TRANSITIONS INTO EXISTING FEATURES AND PROMOTE SHEET FLOW WHERE POSSIBLE. ALL GRADING CHANGES TO BE PRE-APPROVED BY COUNTY INSPECTOR.
 5. INSTALL SHRUB DEER PROTECTION DEVICES AS PER DETAIL. PROTECTION SHALL BE PROVIDED FOR EACH GROUP OF 4 SHRUBS, MAXIMUM.
 6. INSTALL TREE DEER PROTECTION DEVICES AS PER DETAIL.
 7. UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS SHALL BE STABILIZED WITH:
 - 4" OF TOPSOIL
 - TURFGRASS SEED MIX
 - 20% VIRGINIA WILD RYE
 - 20% RIPARIAN WILD RYE
 - 20% DEER TONGUE
 - 20% CREEPING RED FESCUE
 - 20% ANNUAL RYE
 - MULCH
 8. REFER TO PLAN SHEET LS-09 FOR SPECIFIC NOTES PERTAINING TO TREE PRESERVATION, INVASIVE SPECIES, INSPECTIONS, AND TREE CANOPY INFORMATION.
 9. PLEASE SEE SHEET LS-07 FOR TREE PLANTING DETAIL.
 10. PLEASE SEE SHEET LS-09 FOR STANDARD TREE CANOPY NOTES.

LANDSCAPE PLANT SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
<u>TREES</u>						
*AR	3	ACER RUBRUM 'RED SUNSET'	'RED SUNSET' RED MAPLE	2" CAL.	B&B	30' O.C., AS SHOWN
*QB	6	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL.	B&B	30' O.C., AS SHOWN
*QP	5	QUERCUS PHELLOS	WILLOW OAK	2" CAL.	B&B	30' O.C., AS SHOWN
<u>SHRUBS</u>						
LB	10	LINDERA BENZOIN	SPICEBUSH	24" HGT.	CONT.	5' O.C.
VD	6	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" HGT.	CONT.	5' O.C.

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

LEGEND

SDP SHRUB DEER PROTECTION FENCE

LOD LIMIT OF DISTURBANCE

--- LIMIT OF GRADING

TPF TREE PROTECTION FENCE

SHADE TREE (CROSSHATCH AREA SHOWN IS 400SF GROWING ZONE PER EXECUTIVE REGULATION 22-13)

QA 1 SHADE TREE

BIOSWALE BOTTOMS SHALL BE SEEDED WITH MDOT SHA'S BIORETENTION SOIL MIX MEADOW ESTABLISHMENT, SEE SPECIFICATIONS FOR APPLICATION RATES.

FORBS	GRASSES
BLACKKEYED SUSAN	SWITCHGRASS
PARTRIDGE PEA	DEERTONGUE
RED CLOVER	HARD FESCUE
	WEEPING ALKALIGRASS
	PURPLETOP
	VIRGINIA WILD RYE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Sediment Control Technical Requirements:

Administrative Requirements:

Reviewed Date

Approved Date

SM FILE #

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.

SEDIMENT CONTROL PERMIT NO.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED

DRAFT NOT FOR CONSTRUCTION

JMNT

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section APPROVED Date

Chief, Division of Transportation Engineering Date

Designed by: SBD Drawn by: SBD Checked by: SJR

LS-02 LANDSCAPE PLAN

GOOD HOPE ROAD SIDEWALK

SCALE: 1"=30'

DATE: NOVEMBER 2019

Project No.: 501902 SHEET 40 of 75

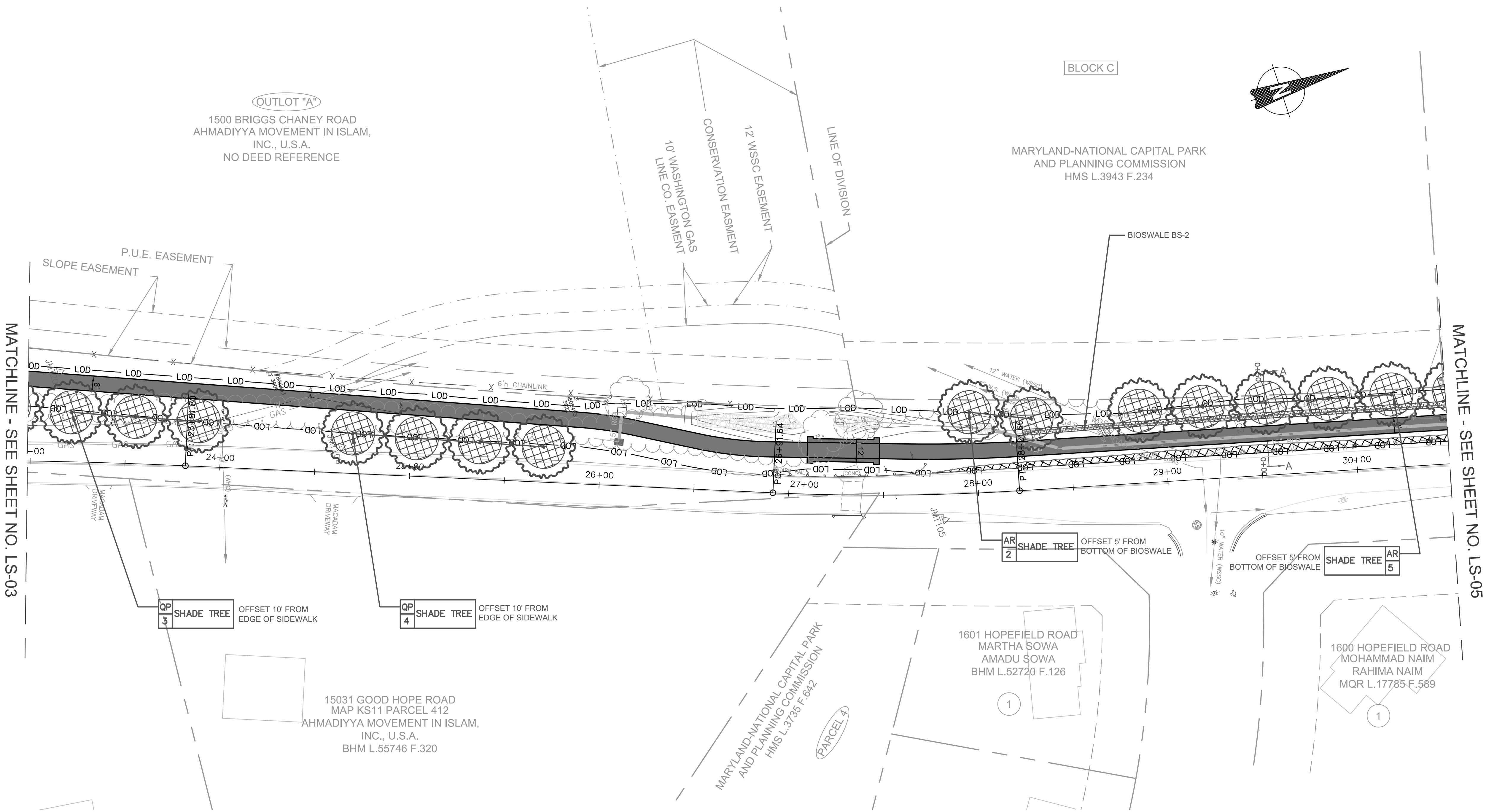


MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management: Reviewed Date	Sediment Control Technical Requirements: Reviewed Date	Administrative Requirements: Reviewed Date
 Reviewed Date	 Approved Date	 SEDIMENT CONTROL PERMIT NO.
 Approved Date		 MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED
SM FILE #		

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.



FILE NAME: Q:\2013\130605_007_Good_Hope_Road_Sidewalk\CADD\pLS_GoodHope.dwg LAYOUT NAME: LS-03 PLOTTED: Friday, November 01, 2019 - 9:42am USER: Haverne



LANDSCAPE PLANT SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREES						
*AR	7	ACER RUBRUM 'RED SUNSET'	'RED SUNSET' RED MAPLE	2" CAL.	B&B	30' O.C., AS SHOWN
*QP	7	QUERCUS PHELLOS	WILLOW OAK	2" CAL.	B&B	30' O.C., AS SHOWN

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

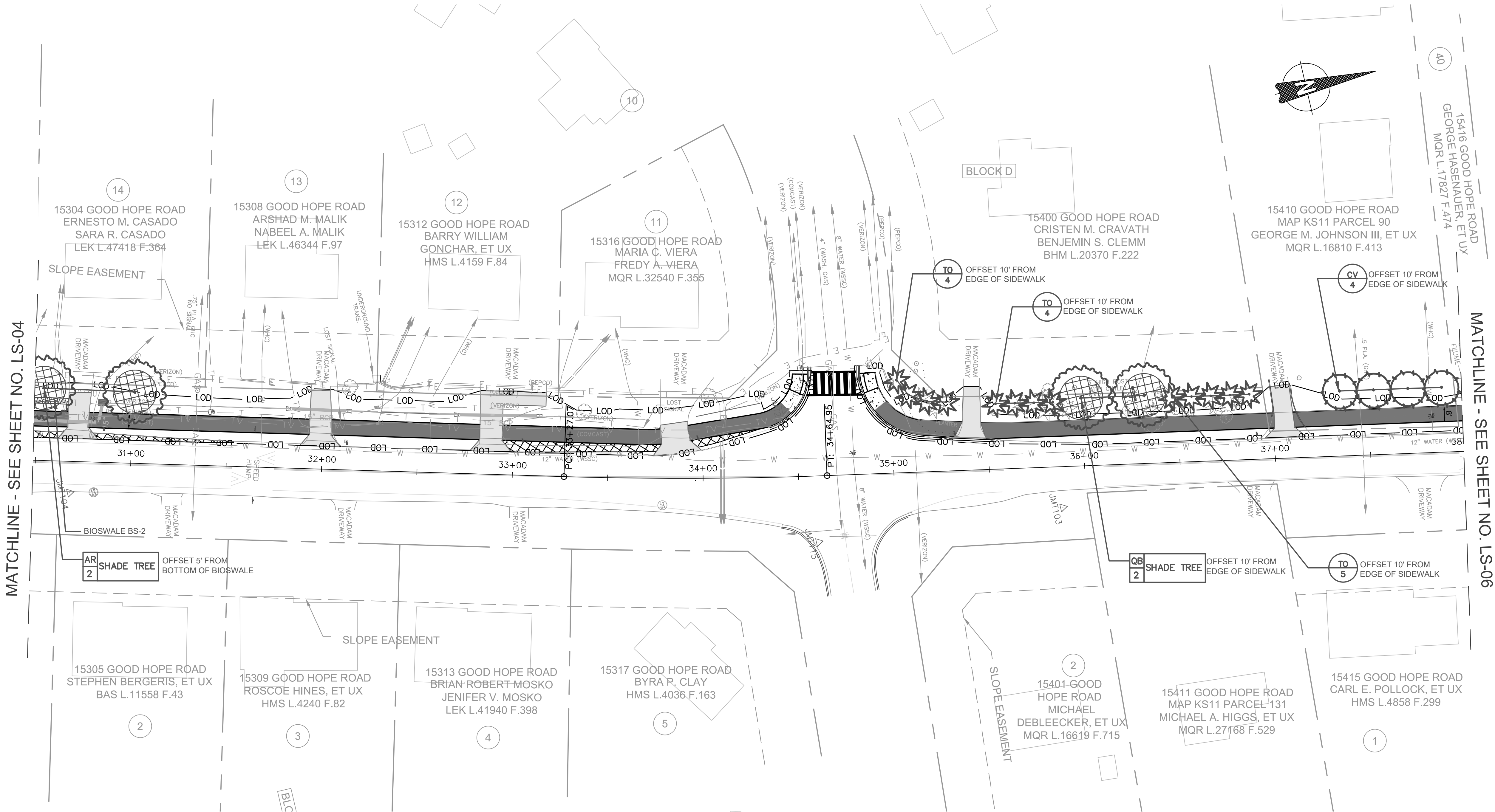
LEGEND	
	SHRUB DEER PROTECTION FENCE
	LIMIT OF DISTURBANCE
	LIMIT OF GRADING
	TREE PROTECTION FENCE
	SHADE TREE (CROSSHATCH AREA SHOWN IS 400SF GROWING ZONE PER EXECUTIVE REGULATION 22-13)

BIOSWALE BOTTOMS SHALL BE SEEDED WITH MDOT SHA'S BIORETENTION SOIL MIX MEADOW ESTABLISHMENT, SEE SPECIFICATIONS FOR APPLICATION RATES.	
FORBS	GRASSES
BLACKEYED SUSAN	SWITCHGRASS
PARTRIDGE PEA	DEERTONGUE
RED CLOVER	HARD FESCUE
	WEEPING ALKALIGRASS
	PURPLETOP
	VIRGINIA WILD RYE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed Date	Reviewed Date	Reviewed Date
Approved Date	Approved Date	SEDIMENT CONTROL PERMIT NO.
SM FILE #		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED

- NOTE:
- TREATMENT A: TREE TO REMAIN.
 - TREATMENT B: REMOVE TREE INCLUDING STUMP.
 - REFER TO SIGNING AND STRIPING PLAN FOR PAVEMENT MARKING DETAILS.
 - CONTRACTOR SHALL FIELD ADJUST GRADING TO PROVIDE SMOOTH TRANSITIONS INTO EXISTING FEATURES AND PROMOTE SHEET FLOW WHERE POSSIBLE. ALL GRADING CHANGES TO BE PRE-APPROVED BY COUNTY INSPECTOR.
 - INSTALL SHRUB DEER PROTECTION DEVICES AS PER DETAIL. PROTECTION SHALL BE PROVIDED FOR EACH GROUP OF 4 SHRUBS, MAXIMUM.
 - INSTALL TREE DEER PROTECTION DEVICES AS PER DETAIL.
 - UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS SHALL BE STABILIZED WITH:
 - 4" OF TOPSOIL
 - TURFGRASS SEED MIX
 - 20% VIRGINIA WILD RYE
 - 20% RIPARIAN WILD RYE
 - 20% DEER TONGUE
 - 20% CREEPING RED FESCUE
 - 20% ANNUAL RYE
 - MULCH
 - REFER TO PLAN SHEET LS-09 FOR SPECIFIC NOTES PERTAINING TO TREE PRESERVATION, INVASIVE SPECIES, INSPECTIONS, AND TREE CANOPY INFORMATION.
 - PLEASE SEE SHEET LS-07 FOR TREE PLANTING DETAIL.
 - PLEASE SEE SHEET LS-09 FOR STANDARD TREE CANOPY NOTES.

DRAFT NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		LS-04 LANDSCAPE PLAN GOOD HOPE ROAD SIDEWALK	
		RECOMMENDED FOR APPROVAL		SCALE: 1"=30'	
		Chief, Design Section APPROVED		DATE	
		Chief, Division of Transportation Engineering		DATE	
		Designed by: SBD Drawn by: SBD Checked by: SJR		Project No.: 501902 SHEET 42 of 75	
NO.	REVISION	DATE	BY	DATE: NOVEMBER 2019	



- NOTE:
1. TREATMENT A: TREE TO REMAIN.
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 - 4" OF TOPSOIL
 - TURFGRASS SEED MIX
 - 20% VIRGINIA WILD RYE
 - 20% RIPARIAN WILD RYE
 - 20% DEER TONGUE
 - 20% CREEPING RED FESCUE
 - 20% ANNUAL RYE
 8. REFER TO PLAN SHEET LS-09 FOR SPECIFIC NOTES PERTAINING TO TREE PRESERVATION, INVASIVE SPECIES, INSPECTIONS, AND TREE CANOPY INFORMATION.
 9. PLEASE SEE SHEET LS-07 FOR TREE PLANTING DETAIL.
 10. PLEASE SEE SHEET LS-09 FOR STANDARD TREE CANOPY NOTES.

LANDSCAPE PLANT SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREES						
*AR	2	ACER RUBRUM	'RED SUNSET' RED MAPLE	2" CAL.	B&B	30' O.C., AS SHOWN
CV	4	CRATAEGUS VIRIDIS	'WINTER KING' HAWTHORN	2" CAL.	B&B	20' O.C.
*QB	2	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL.	B&B	30' O.C., AS SHOWN
TO	13	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	6' HGT.	B&B	10' O.C.

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

LEGEND

SDP SHRUB DEER PROTECTION FENCE

LOD LIMIT OF DISTURBANCE

--- LIMIT OF GRADING

TPF TREE PROTECTION FENCE

SHADE TREE (CROSSHATCH AREA SHOWN IS 400SF GROWING ZONE PER EXECUTIVE REGULATION 22-13)

QA 1 SHADE TREE

BIOSWALE BOTTOMS SHALL BE SEEDED WITH MDOT SHA'S BIORETENTION SOIL MIX MEADOW ESTABLISHMENT, SEE SPECIFICATIONS FOR APPLICATION RATES.

FORBS

BLACKKEYED SUSAN

PARTRIDGE PEA

RED CLOVER

GRASSES

SWITCHGRASS

DEERTONGUE

HARD FESCUE

WEEPING ALKALIGRASS

PURPLETOP

VIRGINIA WILD RYE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Sediment Control Technical Requirements:

Administrative Requirements:

Reviewed Date

Approved Date

SM FILE #

Reviewed Date

Approved Date

Reviewed Date

Approved Date

MCDCS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED

DRAFT NOT FOR CONSTRUCTION

JMNT

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section APPROVED Date

Chief, Division of Transportation Engineering Date

Designed by: SBD Drawn by: SBD Checked by: SJR

LS-05 LANDSCAPE PLAN

GOOD HOPE ROAD SIDEWALK

SCALE: 1"=30'

DATE: NOVEMBER 2019



Project No.: 501902 SHEET 43 of 75

LANDSCAPE PLANT SCHEDULE (TOTAL)						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREES						
*AR	12	ACER RUBRUM 'RED SUNSET'	'RED SUNSET' RED MAPLE	2" CAL.	B&B	30' O.C., AS SHOWN
*CO	16	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2" CAL.	B&B	30' O.C., AS SHOWN
CV	10	CRATAEGUS VIRIDIS 'WINTER KING'	'WINTER KING' HAWTHORN	2" CAL.	B&B	20' O.C., AS SHOWN
*LT	5	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2" CAL.	B&B	30' O.C., AS SHOWN
*PO	12	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2" CAL.	B&B	30' O.C., AS SHOWN
*QB	8	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL.	B&B	30' O.C., AS SHOWN
*QP	19	QUERCUS PHELLOS	WILLOW OAK	2" CAL.	B&B	30' O.C., AS SHOWN
TO	27	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	6' HGT.	B&B	10' O.C., AS SHOWN
SHRUBS						
LB	33	LINDERA BENZOIN	SPICEBUSH	24" HGT.	CONT.	5' O.C.
VD	32	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" HGT.	CONT.	5' O.C.

*SHADE TREE TO FULFILL MONTGOMERY COUNTY TREE CANOPY REQUIREMENT.

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management: Reviewed Date Approved Date SM FILE # _____	Sediment Control Technical Requirements: Reviewed Date Approved Date	Administrative Requirements: Reviewed Date SEDIMENT CONTROL PERMIT NO. _____ MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED

DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES.

<p>DRAFT NOT FOR CONSTRUCTION</p>				<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>				<p>LS-08 LANDSCAPE PLANT SCHEDULE SHEET</p>			
				<p>RECOMMENDED FOR APPROVAL</p>				<p>GOOD HOPE ROAD SIDEWALK</p> <div style="text-align: center;">  <p>SCALE: 1" = 30'</p> </div> <p>DATE: NOVEMBER 2019</p>			
				<p>Chief, Design Section _____ Date _____</p>							
				<p>APPROVED _____</p>							
				<p>Chief, Division of Transportation Engineering _____ Date _____</p>							
				<p>Designed by: <u>SBD</u> Drawn by: <u>SBD</u> Checked by: <u>SJR</u></p>							
NO.	REVISION	DATE	BY					<p>Project No. : <u>501902</u> SHEET <u>46</u> of <u>75</u></p>			

TREE PRESERVATION NOTES

1. ALL WORK PERFORMED SHALL MEET OR EXCEED INDUSTRY STANDARDS AS MOST RECENTLY PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), OR THE TREE CARE INDUSTRY ASSOCIATION (TCIA). IN THE EVENT TREATMENTS PRESCRIBED ARE NOT COVERED BY AN EXISTING STANDARD, WORK SHALL MEET OR EXCEED STANDARDS APPROVED BY M-NCPPC.
2. TREES DESIGNATED FOR REMOVAL ALONG THE LIMITS OF DISTURBANCE SHALL BE REMOVED USING A CHAINSAW TO AVOID DAMAGE TO SURROUNDING TREES TO BE PRESERVED AND UNDERSTORY VEGETATION. IF A STUMP MUST BE REMOVED, THIS SHALL BE DONE ONLY WITH THE APPROVAL OF M-NCPPC USING A STUMP-GRINDING MACHINE IN A MANNER THAT CAUSES AS LITTLE DISTURBANCE AS POSSIBLE TO ADJACENT TREES, VEGETATION AND SOIL CONDITIONS.
3. ROOT PRUNING SHALL BE PERFORMED, AS NEEDED, TO COMPLY WITH THE FOREST CONSERVATION REQUIREMENTS OF THESE DEVELOPMENT CONDITIONS. ALL TREATMENTS SHALL BE CLEARLY IDENTIFIED, LABELED, AND DETAILED ON THE TREE PRESERVATION AND LANDSCAPE SHEETS OF THE PLAN SUBMISSION. THE DETAILS FOR THESE TREATMENTS SHALL BE REVIEWED AND APPROVED BY M-NCPPC, ACCOMPLISHED IN A MANNER THAT PROTECTS AFFECTED AND ADJACENT VEGETATION TO BE PRESERVED. ROOT PRUNING DETAILS MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: (1) ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18 INCHES; (2) ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING AND/OR INSTALLATION OF SUPER SILT FENCE, DIVERSION FENCE OR TREE PROTECTION FENCE; (3) ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF THE PARK URBAN FORESTER; AND (4) A M-NCPPC REPRESENTATIVE SHALL BE INFORMED WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.
4. IMMEDIATELY AFTER THE E&S ACTIVITIES ARE COMPLETE, TREES INDICATED FOR MULCHING IN THE TREE INVENTORY SHALL BE MULCHED TO PROTECT THE ROOTS AND RETAIN MOISTURE. HARDWOOD CHIPS OR SHREDDED MULCH SHALL BE APPLIED AT A MAXIMUM DEPTH OF 4 INCHES AROUND THESE SPECIFIC TREES AND ONLY WITHIN 10 FEET OF THE LIMITS OF DISTURBANCE. ADDITIONAL AREAS MAY BE MULCHED AS PART OF THE INVASIVE SPECIES MANAGEMENT, SEE INVASIVE SPECIES MANAGEMENT NOTES, THIS SHEET.
5. ALL CONSTRUCTION ACTIVITY BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN SHALL BE PROHIBITED UNLESS PREVIOUSLY APPROVED. THE STORAGE OF EQUIPMENT, MATERIALS, CHEMICALS, AND DEBRIS AS WELL AS VEHICULAR TRAFFIC OR THE PARKING OF VEHICLES SHALL NOT BE PERMITTED WITHIN TREE PRESERVATION AREAS.
6. THE SERVICES OF THE PROJECT SURVEYOR SHALL BE RETAINED TO HAVE THE LIMITS OF CLEARING AND GRADING IN THE AREAS OF TREE PRESERVATION MARKED WITH A CONTINUOUS LINE OF FLAGGING PRIOR TO THE WALK-THROUGH MEETING WITH THE M-NCPPC DEPARTMENT OF PLANNING FOREST CONSERVATION INSPECTOR AND PARKS DEPARTMENT INSPECTOR TO BE HELD PRIOR TO ANY CLEARING AND GRADING. DURING THE TREE PRESERVATION WALK-THROUGH MEETING, THE PARK URBAN FORESTER SHALL WALK SUCH LIMITS OF CLEARING AND GRADING WITH BOTH INSPECTORS TO DETERMINE WHERE ADJUSTMENTS TO THE CLEARING LIMITS CAN BE MADE TO INCREASE THE AREA OF TREE PRESERVATION AND/OR TO INCREASE THE SURVIVABILITY OF TREES AT THE EDGE OF THE LIMITS OF CLEARING AND GRADING. SUCH ADJUSTMENT SHALL BE IMPLEMENTED; PROVIDED, HOWEVER, THAT NO ADJUSTMENT SHALL BE REQUIRED THAT WOULD AFFECT THE LOCATION AND/OR DESIGN OF THE DEVELOPMENT, INCLUDING A REQUIREMENT FOR ADDITIONAL RETAINING WALLS. TREES WITHIN THE PRESERVATION AREAS THAT ARE IDENTIFIED SPECIFICALLY BY M-NCPPC IN WRITING AS DEAD OR DYING MAY BE REMOVED AS PART OF THE CLEARING OPERATION. ANY TREE THAT IS SO DESIGNATED SHALL BE REMOVED USING A CHAIN SAW AND SUCH REMOVAL SHALL BE ACCOMPLISHED IN A MANNER THAT AVOIDS DAMAGE TO SURROUNDING TREES AND ASSOCIATED UNDERSTORY VEGETATION. IF A STUMP MUST BE REMOVED, THIS SHALL BE DONE USING A STUMP-GRINDING MACHINE IN A MANNER CAUSING AS LITTLE DISTURBANCE AS POSSIBLE TO ADJACENT TREES AND ASSOCIATED UNDERSTORY VEGETATION AND SOIL CONDITIONS.
7. THE LIMITS OF CLEARING AND GRADING SHALL BE STRICTLY CONFORMED TO, AS SHOWN ON THE PLAN, SUBJECT TO ALLOWANCES SPECIFIED IN THESE DEVELOPMENT CONDITIONS AND FOR THE INSTALLATION OF FENCES AND/OR UTILITIES AS DETERMINED NECESSARY BY M-NCPPC. IF IT IS DETERMINED NECESSARY TO INSTALL FENCES AND/OR UTILITIES IN AREAS PROTECTED BY THE LIMITS OF CLEARING AND GRADING AS SHOWN ON THE PLAN, THEY SHALL BE LOCATED IN THE LEAST DISRUPTIVE MANNER NECESSARY AS DETERMINED BY M-NCPPC AND THE PARK URBAN FORESTER.
8. DURING ANY CLEARING OR TREE/VEGETATION REMOVAL IN THE AREAS ADJACENT TO THE TREE PRESERVATION AREAS, A REPRESENTATIVE OF THE DEVELOPER SHALL BE PRESENT TO MONITOR THE PROCESS AND ENSURE THAT THE ACTIVITIES ARE CONDUCTED AS CONDITIONED AND APPROVED BY M-NCPPC. THE SERVICES OF THE PARK URBAN FORESTER SHALL BE RETAINED TO MONITOR ALL ON-SITE CONSTRUCTION AND DEMOLITION WORK AND TREE PRESERVATION EFFORTS IN ORDER TO ENSURE CONFORMANCE WITH ALL TREE PRESERVATION CONDITIONS, AND M-NCPPC APPROVALS. MONITORING VISITS SHALL BE CONDUCTED WEEKLY DURING E&S INSTALLATION (CLEARING AND GRADING) CONSTRUCTION AND MONTHLY THEREAFTER UNTIL PROJECT COMPLETION.
9. ALL TREES SHOWN TO BE PRESERVED ON THE FOREST CONSERVATION PLAN SHALL BE PROTECTED BY TREE PROTECTION FENCE. TREE PROTECTION FENCING OR SUPER SILT FENCING SHALL BE ERECTED AT THE LIMITS OF CLEARING AND GRADING ADJACENT TO THE TREE PRESERVATION AREAS AS SHOWN ON THE PLANS, AS MAY BE MODIFIED BY THE DEVELOPMENT CONDITIONS BELOW. SUPER SILT FENCE ADJACENT TO MAJOR ROOTS OF TREES MAY BE NOTCHED, AS APPROVED, BY THE DPS INSPECTOR IN THE FIELD. ALL TREE PROTECTION FENCING SHALL BE INSTALLED AFTER THE TREE PRESERVATION WALK-THROUGH MEETING BUT PRIOR TO ANY CLEARING AND GRADING ACTIVITIES. THE INSTALLATION OF ALL TREE PROTECTION FENCING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PARK URBAN FORESTER AND M-NCPPC, AND ACCOMPLISHED IN A MANNER THAT DOES NOT HARM EXISTING VEGETATION THAT IS TO BE PRESERVED.
10. SIGNS STATING "TREE PRESERVATION AREA" SHALL BE AFFIXED TO THE TREE PRESERVATION FENCE AT LEAST EVERY 30 FEET. SIGNS SHALL INCLUDE BOTH ENGLISH AND SPANISH AS SHOWN ON DETAIL.
11. IN ORDER TO MEET THE REFORESTATION REQUIREMENTS FOR THIS PROJECT, THE COUNTY WILL DEBIT 0.96 ACRES FROM THE REFORESTATION PROGRAM. THE REFORESTATION SITE LOCATION IS GREAT SENECA CREEK REFORESTATION SITE, PARCEL NUMBER 358, LOCATED AT 15813 DARNESTOWN ROAD, DARNESTOWN, MARYLAND.

INVASIVE SPECIES NOTES

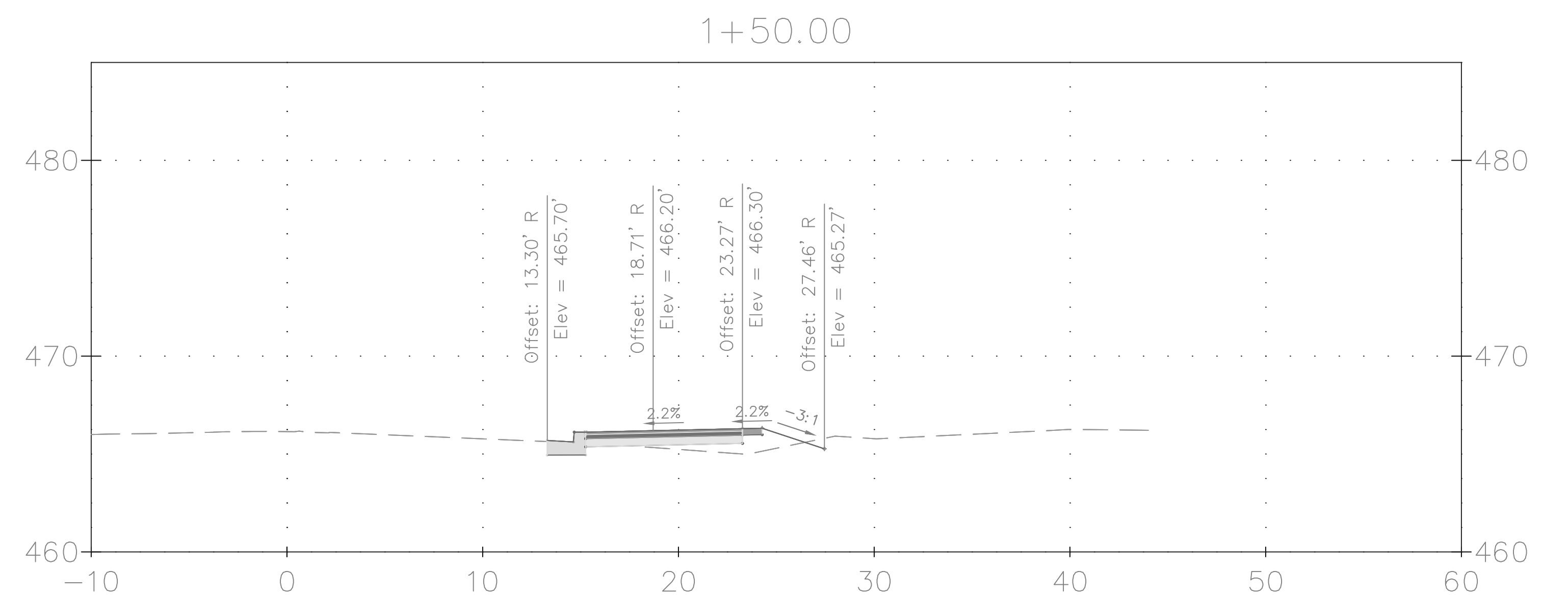
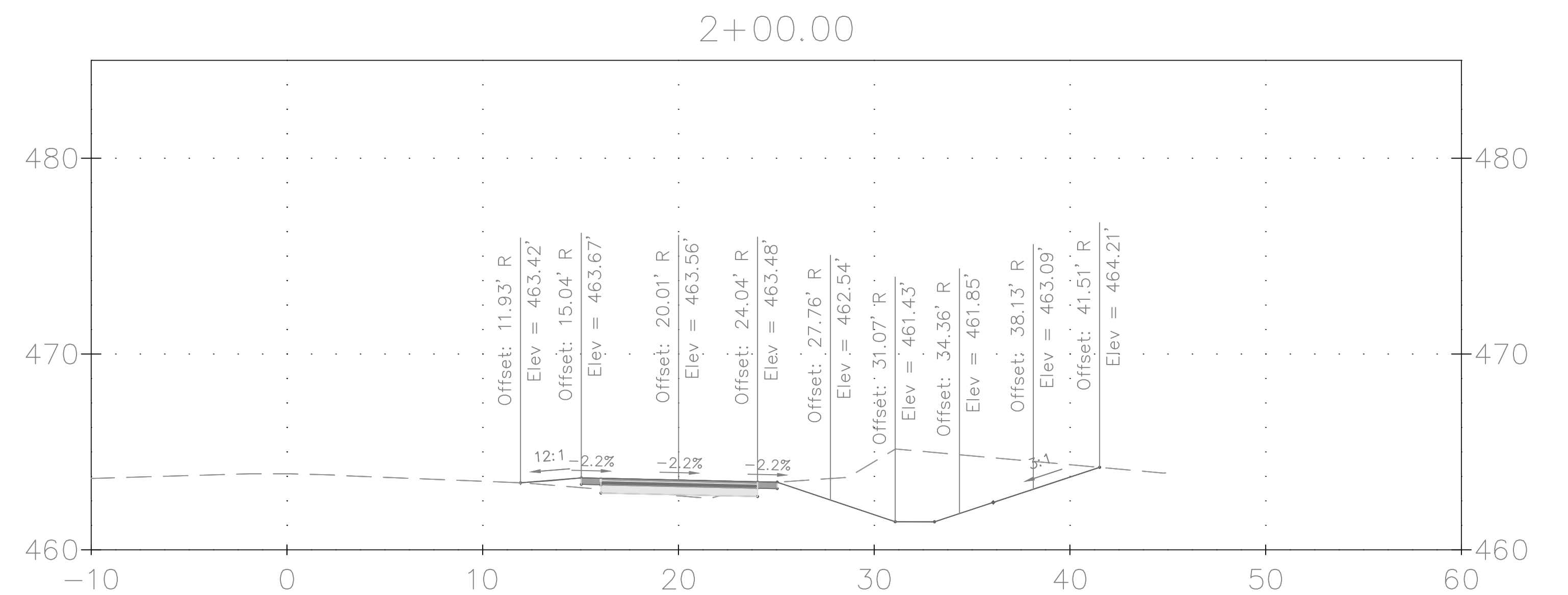
1. ALL WORK MUST BE PERFORMED BY A STATE LICENSED PESTICIDE APPLICATOR, UNDER THE SUPERVISION OF A MARYLAND REGISTERED FORESTER OR OTHER QUALIFIED PROFESSIONAL WITH A SUFFICIENT EDUCATION AND EXPERIENCE IN INVASIVE SPECIES AND INTEGRATED PEST MANAGEMENT TECHNIQUES.
2. CONTRACTOR MUST OBTAIN ALL PERMITS REQUIRED.
3. AN INTEGRATED PEST MANAGEMENT (IPM) PLAN SPECIFICALLY FOR INVASIVE SPECIES SHALL BE SUBMITTED TO AND APPROVED BY M-NCPPC. THIS PLAN WILL INCLUDE AREAS OF TREATMENT, TECHNIQUES, AND TYPES AND QUANTITIES OF HERBICIDES TO BE APPLIED. TECHNIQUES MAY INCLUDE A COMBINATION OF HAND OR SMALL MECHANICAL VEGETATION REMOVAL, MULCHING, AND THE APPLICATION OF HERBICIDE. SMALL MACHINERY REFERS TO ANY PIECE OF EQUIPMENT THAT CAN EASILY BE CARRIED IN AND OUT OF THE FOREST CONSERVATION AREAS SUCH AS A WEED TRIMMER OR CHAINSAW. ANYTHING LARGER THAN A SMALL MACHINE REQUIRES THE APPROVAL OF M-NCPPC.
4. AREAS WITHIN THE LOD SHOULD BE CUT TO THE GROUND AND CLEARED OF ALL VEGETATIVE MATERIAL. OUTSIDE OF LOD (A MAXIMUM ADDITIONAL DISTANCE OF 50 FEET), THE CLEARING SHOULD BE DONE MANUALLY (MACHETE, WEED TRIMMER, OR CHAINSAW) UNDER THE SUPERVISION OF M-NCPPC STAFF. REGROWTH OF INVASIVES SHALL BE TREATED BY HERBICIDE APPLICATION. SEE INVASIVE REMOVAL SPECIFICATION FOR DETAILS OF TYPE AND STRENGTH OF HERBICIDE. THE SPRAYING MUST BE DONE UNDER THE SUPERVISION OF M-NCPPC. REMOVAL MAY REQUIRE THREE APPLICATIONS OF HERBICIDE.
5. 6 TO 8 INCHES OF MULCH MAY BE APPLIED TO AREAS WITH HEAVILY ESTABLISHED INVASIVE SPECIES AFTER THE AREA HAS BEEN TREATED APPROPRIATELY WITH EITHER HAND REMOVAL OR HERBICIDE. THIS MULCHING SHOULD OCCUR 72 HOURS AFTER THE LAST HERBICIDE APPLICATION.
6. IN THE VICINITY OF WATER, FOLLOW THE HERBICIDE'S LABELED INSTRUCTIONS. AN HERBICIDE DESIGNED TO BE USED IN THE VICINITY OF WATER MAY BE REQUIRED (IE. RODEO).
7. THE USE OF A QUALITY SURFACTANT WITH HERBICIDES IS RECOMMENDED FOR IMPROVED CONTROL. SEE HERBICIDE LABEL.
8. READ AND FOLLOW THE PRODUCT LABEL FOR RATES ON THE HERBICIDES.
9. ALL PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE ON-SITE DURING ANY APPLICATION OF HERBICIDES.
10. ALL PLANTS ON THE MARYLAND DEPARTMENT OF NATURAL RESOURCES EXOTIC AND INVASIVE SPECIES LIST SHALL BE ERADICATED FROM ALL AREAS WITHIN THE LOD AND A MAXIMUM ADDITIONAL DISTANCE OF 50 FEET BEYOND THE LOD INTO THE FOREST CONSERVATION AREAS.
11. INDIVIDUALS INVOLVED IN INVASIVE PLANT REMOVAL MUST MEET WITH M-NCPPC STAFF ON-SITE PRIOR TO VEGETATION REMOVAL, MULCHING, OR HERBICIDE APPLICATION.
12. THE CONTRACTOR MUST FOLLOW ALL MARYLAND DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS REGARDING THE SPRAYING OF HERBICIDES. ANY HERBICIDES USED IN THE REMOVAL OF EXOTIC INVASIVE PLANTS MUST BE APPLIED BY A MARYLAND LICENSED PESTICIDE APPLICATOR.
13. CONTRACTOR MUST NOTIFY M-NCPPC STAFF 48 HOURS PRIOR TO SPRAYING.

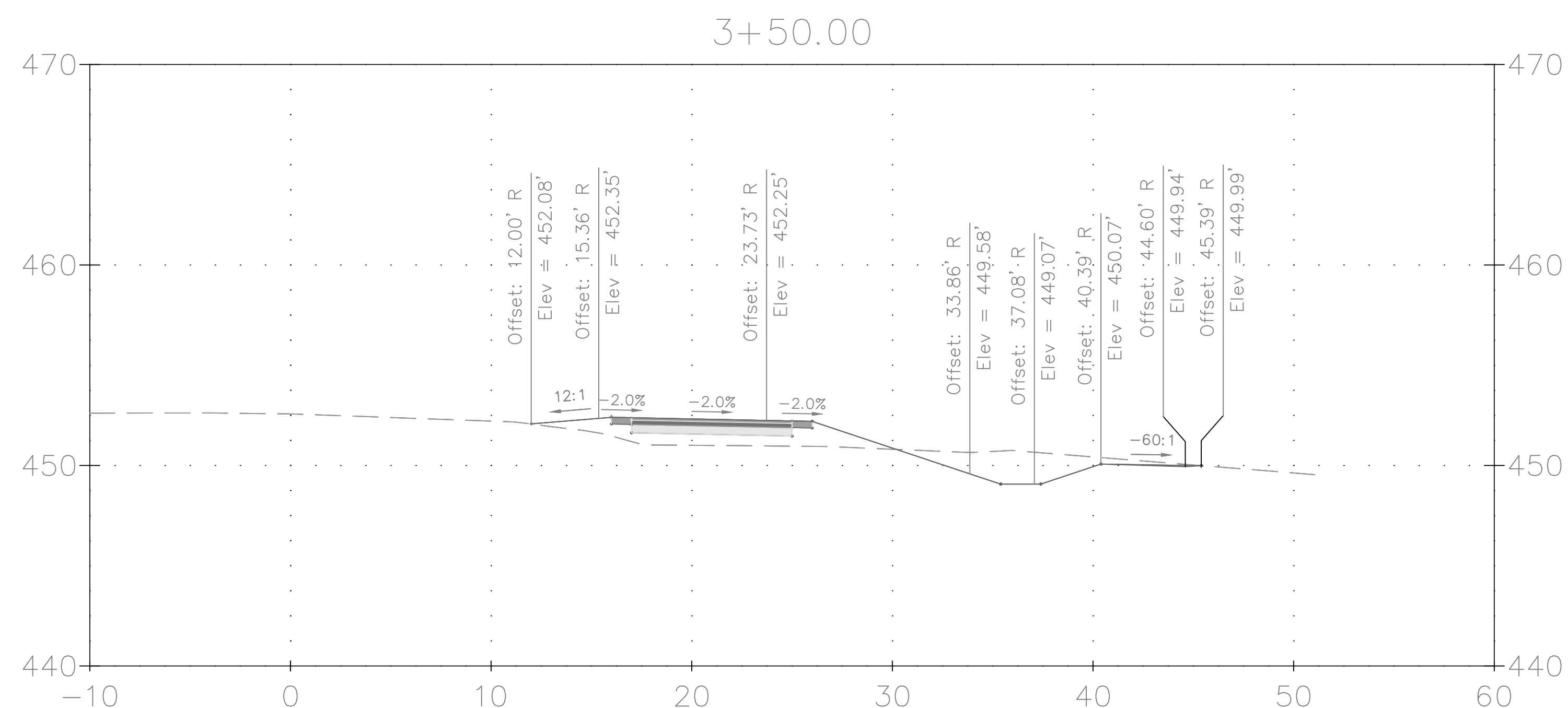
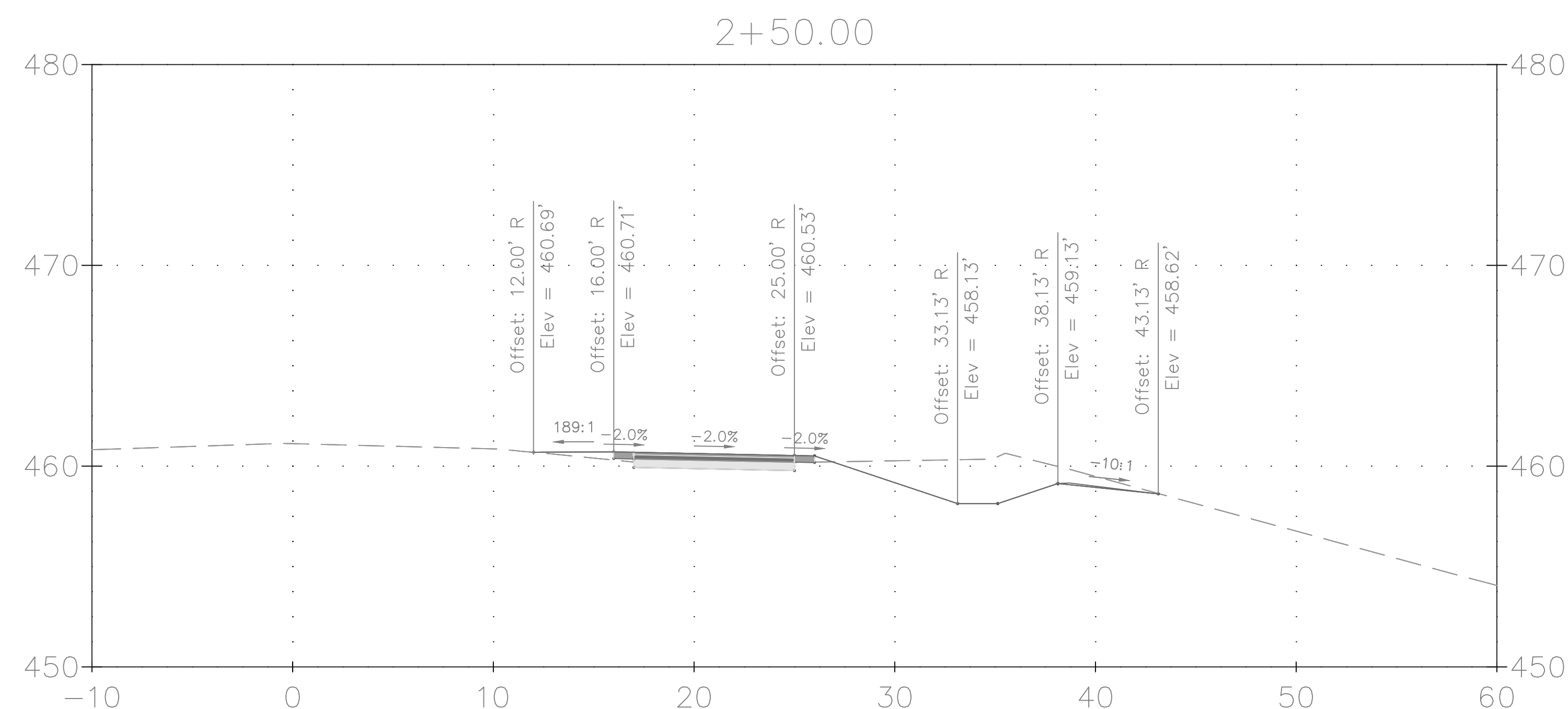
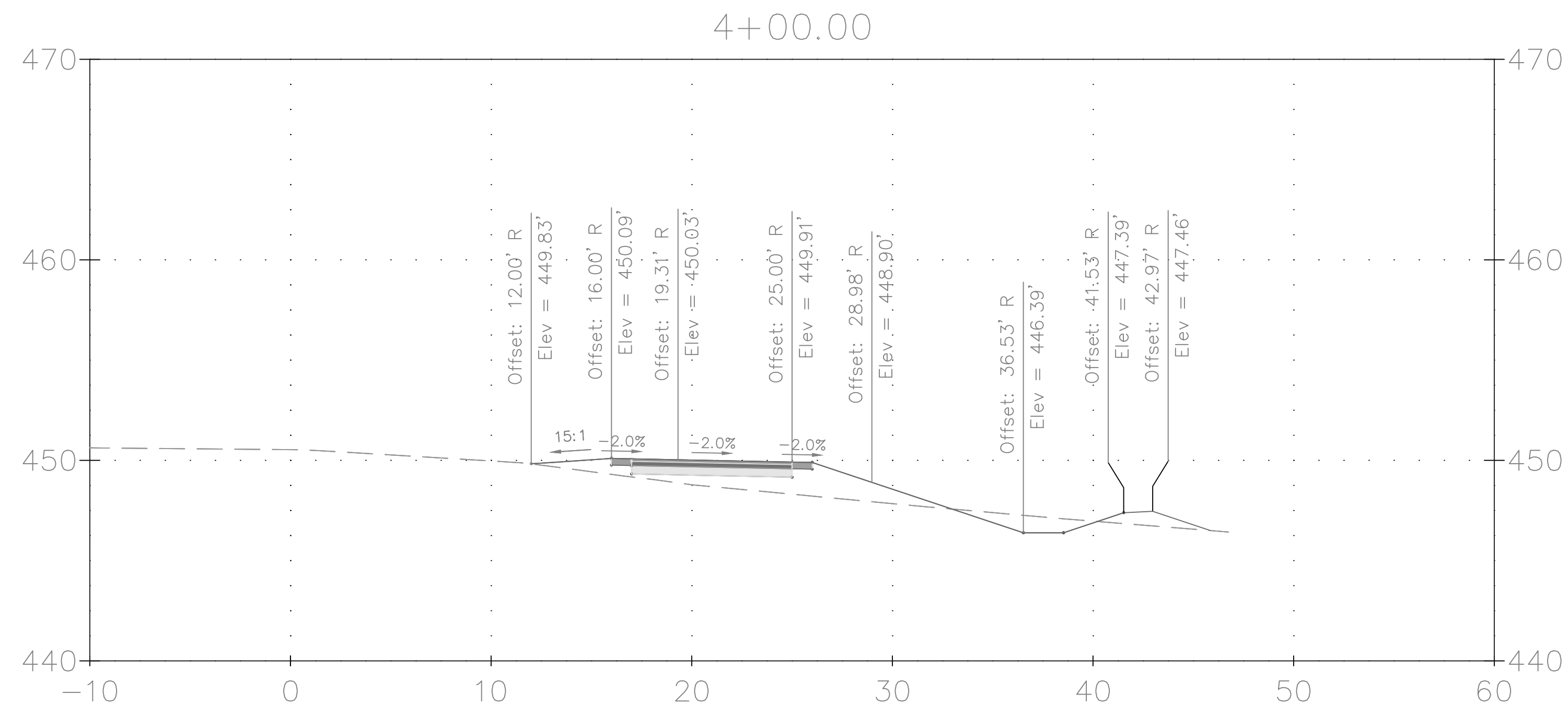
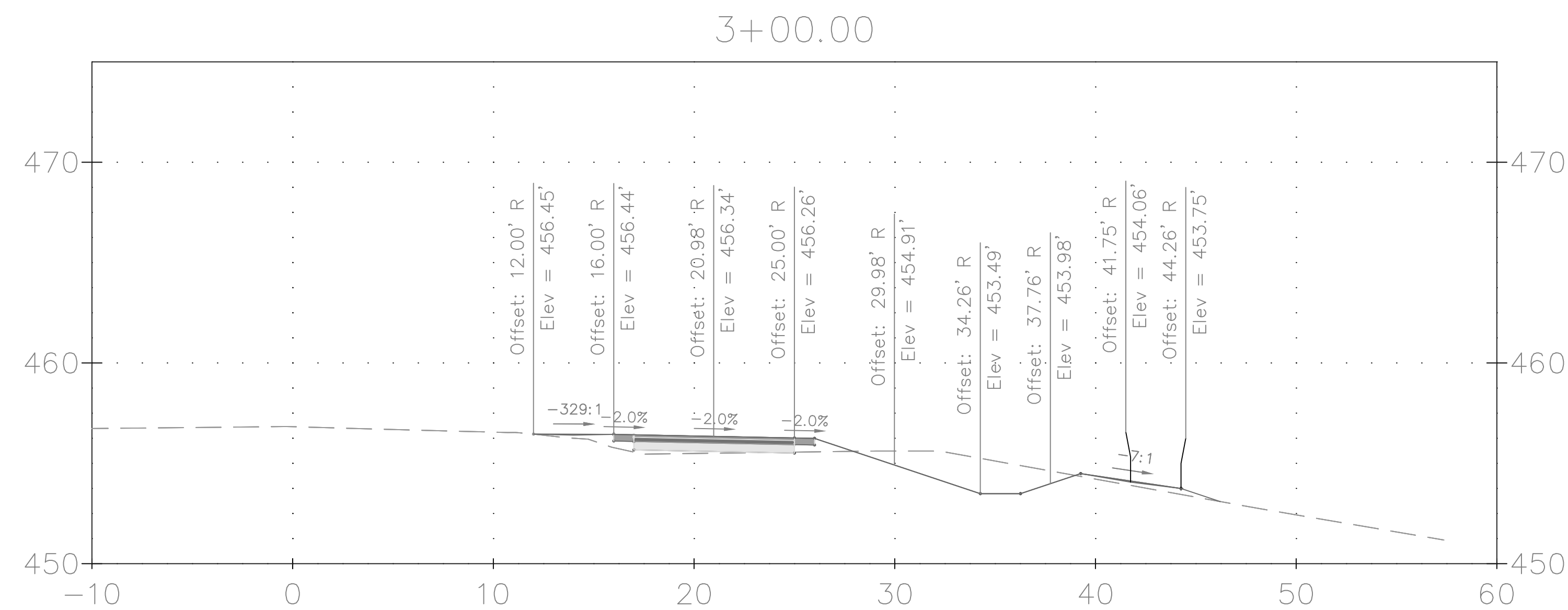
INSPECTIONS NOTES


1. ALL FIELD INSPECTIONS MUST BE REQUESTED BY THE APPLICANT. INSPECTIONS MUST BE CONDUCTED AS FOLLOWS:
 - a. AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS
 - b. AFTER NECESSARY STRESS REDUCTION MEASURES HAVE BEEN COMPLETED AND PROTECTION MEASURES HAVE BEEN INSTALLED, BUT BEFORE ANY CLEARING AND GRADING BEGIN
 - c. AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES, BUT BEFORE REMOVAL OF TREE PROTECTION FENCING, TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISION OF THE FOREST CONSERVATION.
 - d. BEFORE THE START OF ANY REQUIRED REFORESTATION AND AFFORESTATION PLANTING
 - e. AFTER THE REQUIRED REFORESTATION AND AFFORESTATION PLANTING HAS BEEN COMPLETED TO VERIFY THAT THE PLANTING IS ACCEPTABLE AND PRIOR TO THE START OF THE MAINTENANCE PERIOD.
 - f. AT THE END OF THE MAINTENANCE PERIOD TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISIONS OF THE PLANTING PLAN AND, IF APPROPRIATE, RELEASE OF THE PERFORMANCE BOND.

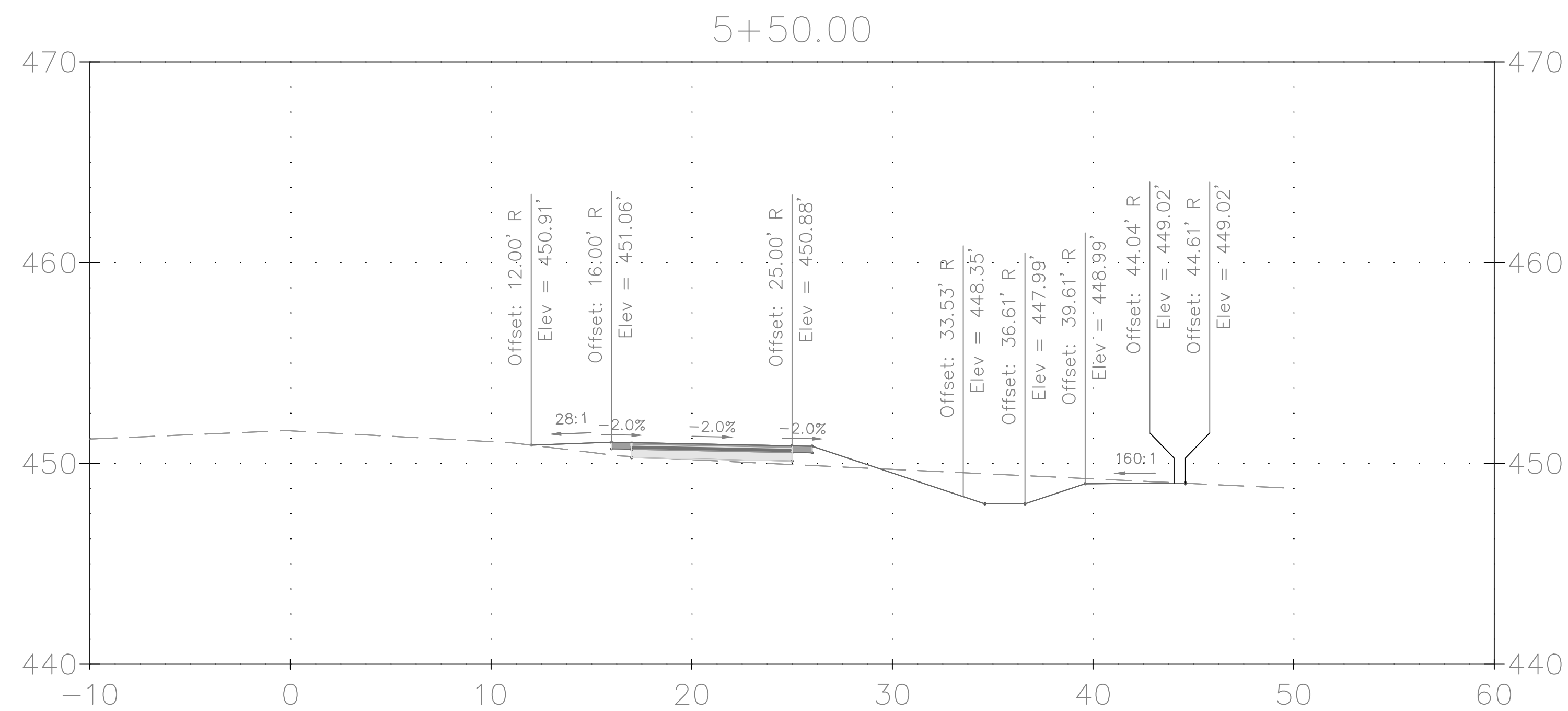
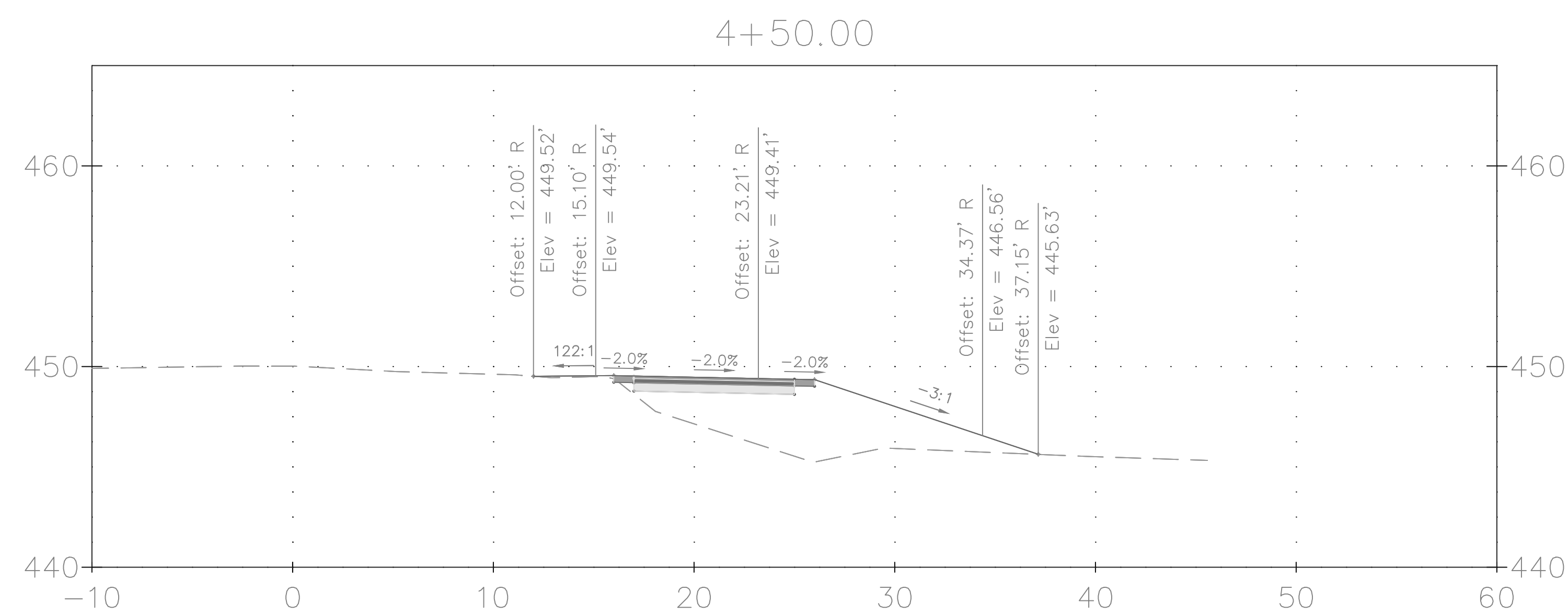
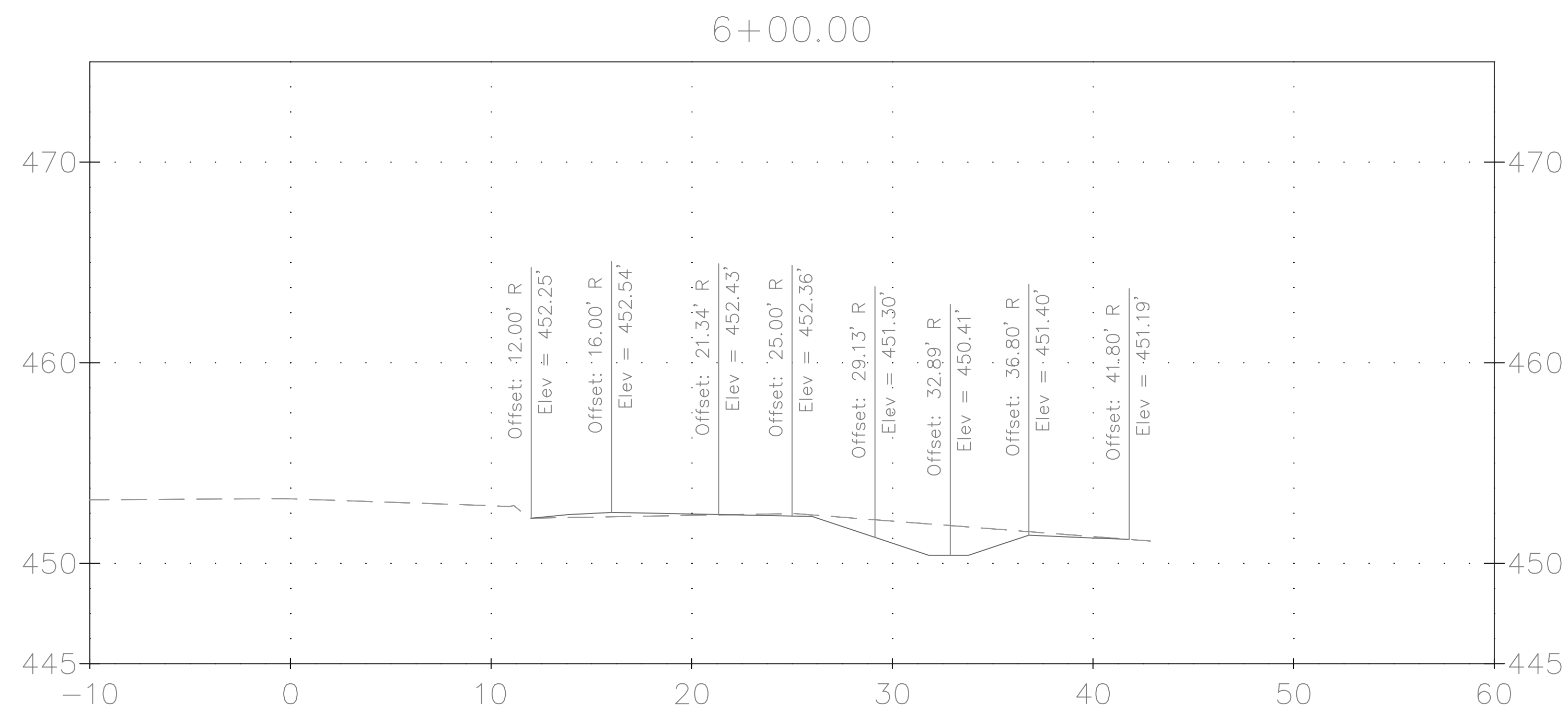
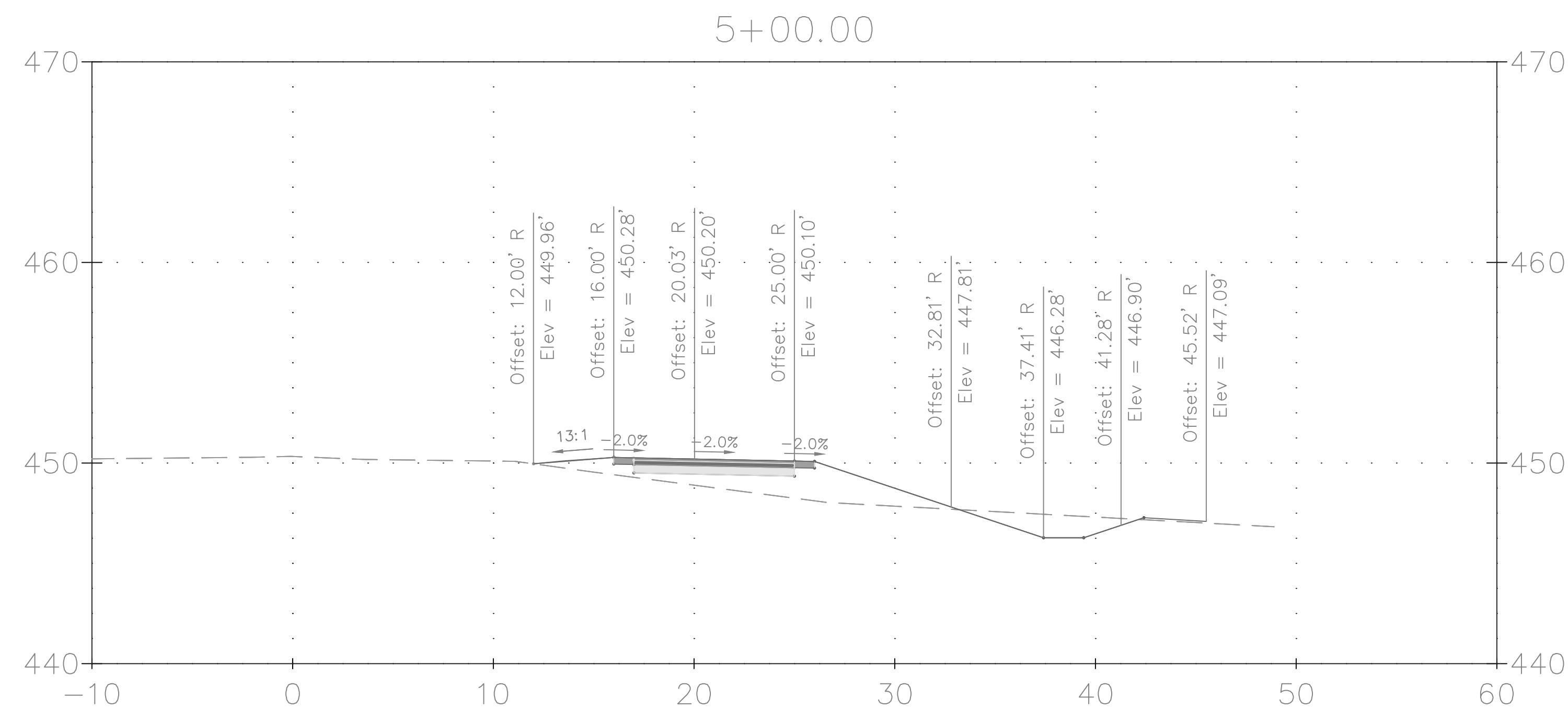
STANDARD TREE CANOPY NOTES



- ANY SHADE TREE PLANTED TO COMPLY WITH CHAPTER 55 OF THE COUNTY CODE MUST CONFORM TO THE FOLLOWING:
1. EACH SHADE TREE MUST MEET THE REQUIREMENTS FOR PLANT MATERIAL IN ANSI Z60.1;
 2. EACH SHADE TREE MUST BE A MINIMUM OF 2" CALIPER;
 3. INSTALLATION OF EACH SHADE TREE MUST MEET ALL REQUIREMENTS OF ANSI A300;
 4. AT THE TIME OF PLANTING:
 - a. TREE GUARDS TO PROTECT TREES FROM DEER RUBBING, MOWERS, WEED EATERS, OTHER EQUIPMENT AND LARGE RODENTS MUST BE INSTALLED ON ALL SHADE TREES;
 - b. MULCH MUST BE APPLIED;
 - c. SUFFICIENT WATER MUST BE APPLIED TO AID IN PROPER PLANTING.
 5. SHADE TREES MUST BE INSTALLED BETWEEN OCTOBER 15TH AND MAY 15TH AS LONG AS THE GROUND IS NOT FROZEN, SATURATED, OR COVERED WITH SNOW SUCH THAT A SUITABLE HOLE CANNOT BE DUG;
 6. SHADE TREES MUST NOT BE INSTALLED BETWEEN MAY 16TH AND OCTOBER 14TH OF EACH YEAR. IF INSTALLATION CANNOT OCCUR BETWEEN OCTOBER 15TH AND MAY 15TH FOR ANY REASON, OR IF PROPOSED TREES ARE NOT PLANTED FOR ANY OTHER REASON, THE PERMITTEE MUST PAY THE REQUIRED FEE IN LIEU.
 7. IF SHADE TREES ARE INSTALLED PRIOR TO FINAL STABILIZATION OF THE LAND DISTURBING ACTIVITY THEN NO ADDITIONAL DISTURBANCE MUST OCCUR WITHIN FIVE FEET OF THE STEM OF THE TREE. PROTECTIVE FENCING MUST BE INSTALLED AT THE EDGE OF THIS AREA AT THE SAME TIME THE TREE IS INSTALLED AND MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION OCCURS.
 8. THE LOCATION OF GROWING ZONES AND PLANTING AREAS MUST BE CLEARLY MARKED IN THE FIELD PRIOR TO INSTALLATION OF ANY SHADE TREE.
 9. A COPY OF THE APPROVED SEDIMENT CONTROL PLAN SHOWING ALL APPROVED GROWING ZONES AND PLANTING AREAS MUST BE AVAILABLE ON THE SITE AT ALL TIMES.
 10. AT LEAST ONE INSPECTION MUST OCCUR AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETED TO DETERMINE THE LEVEL OF COMPLIANCE WITH SHADE TREE PLANTING REQUIREMENTS.

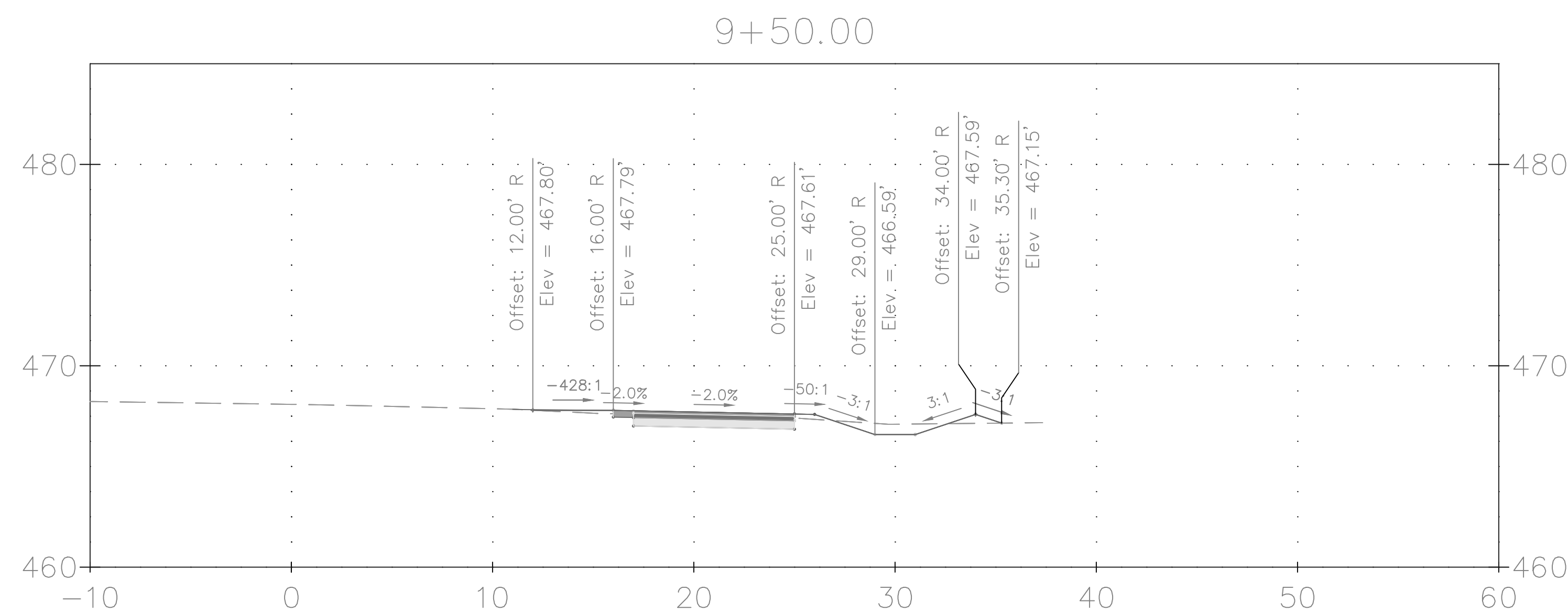
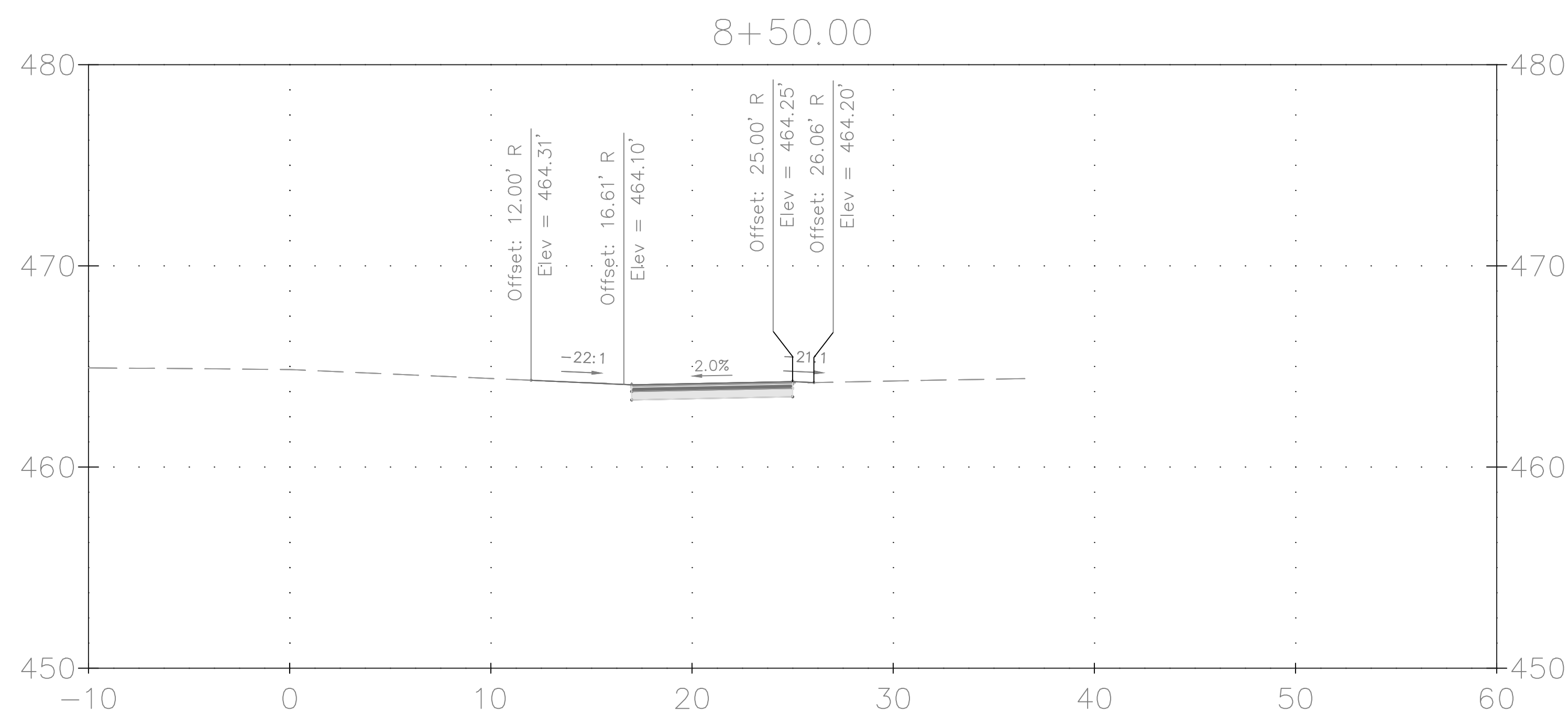
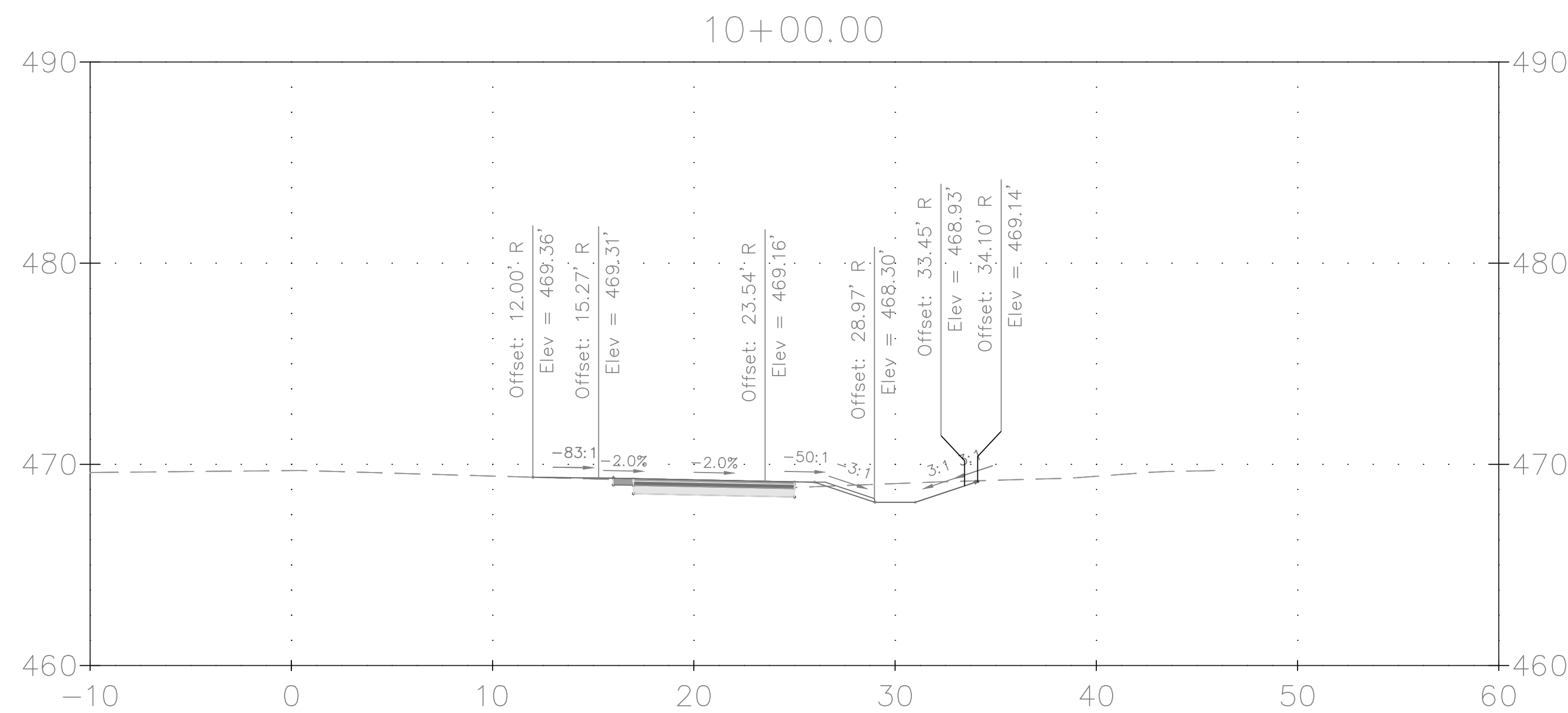
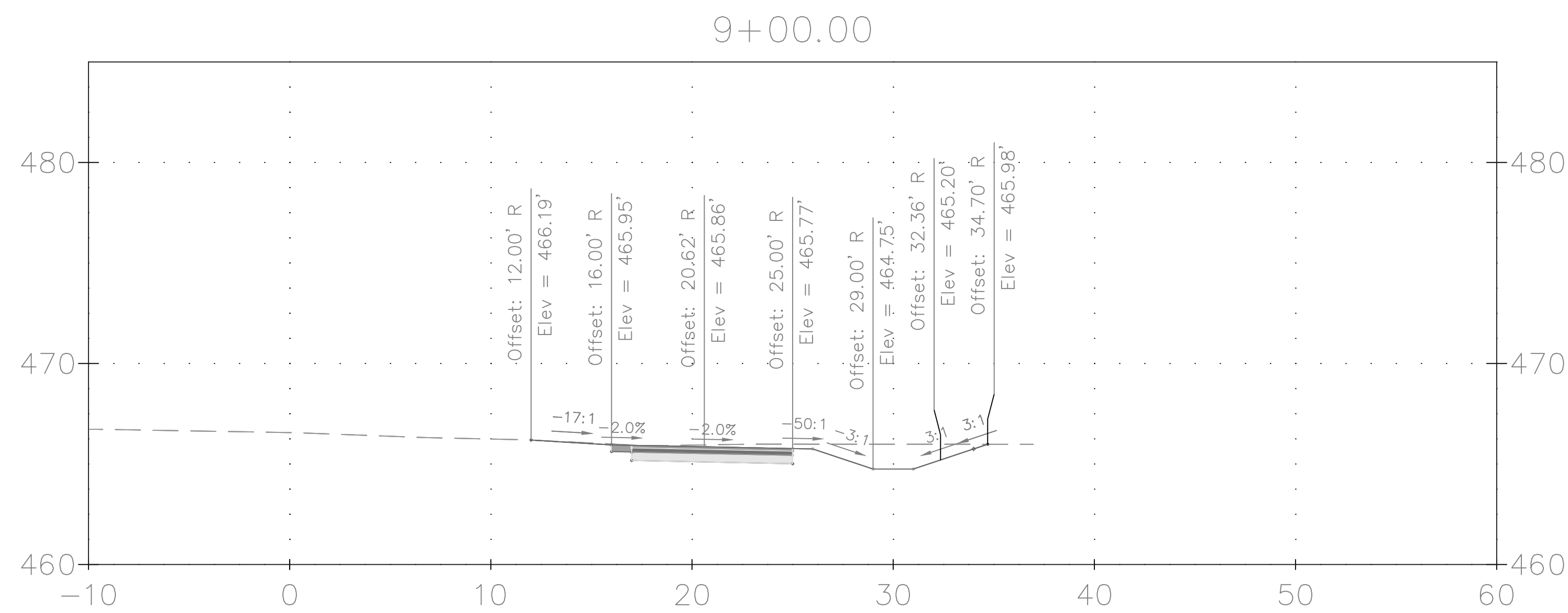


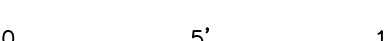



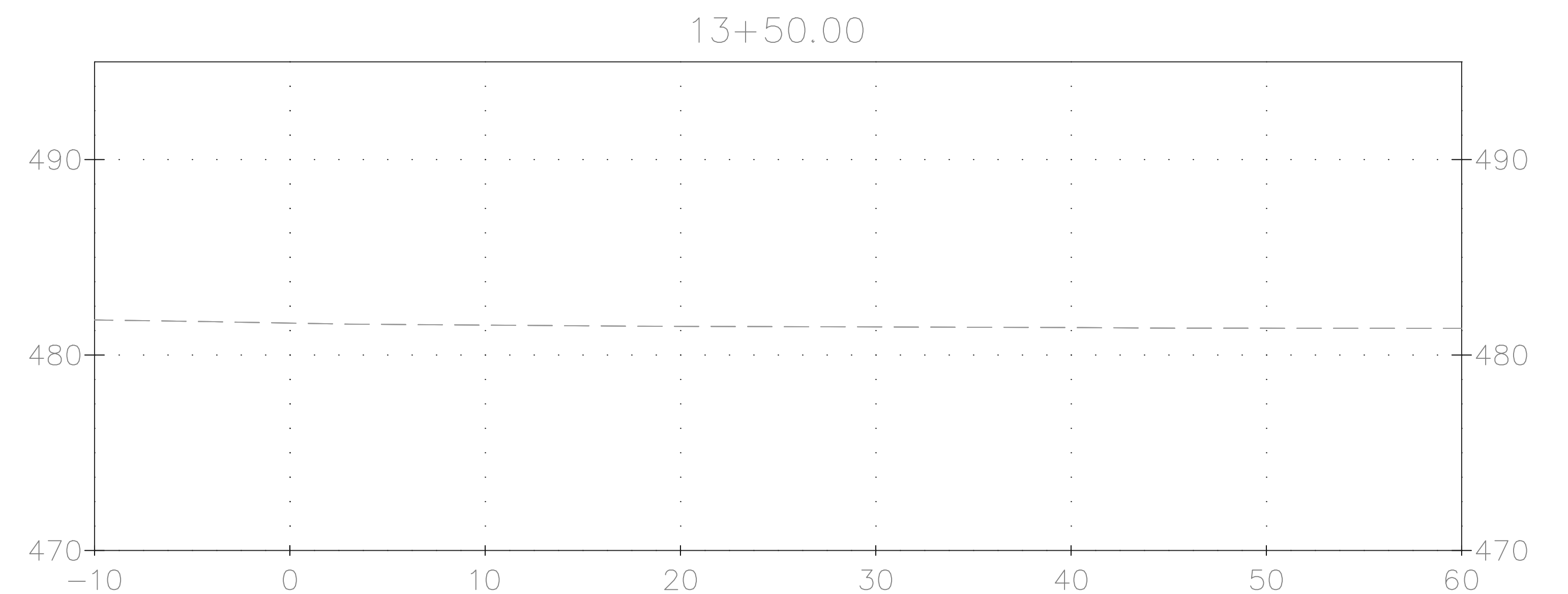
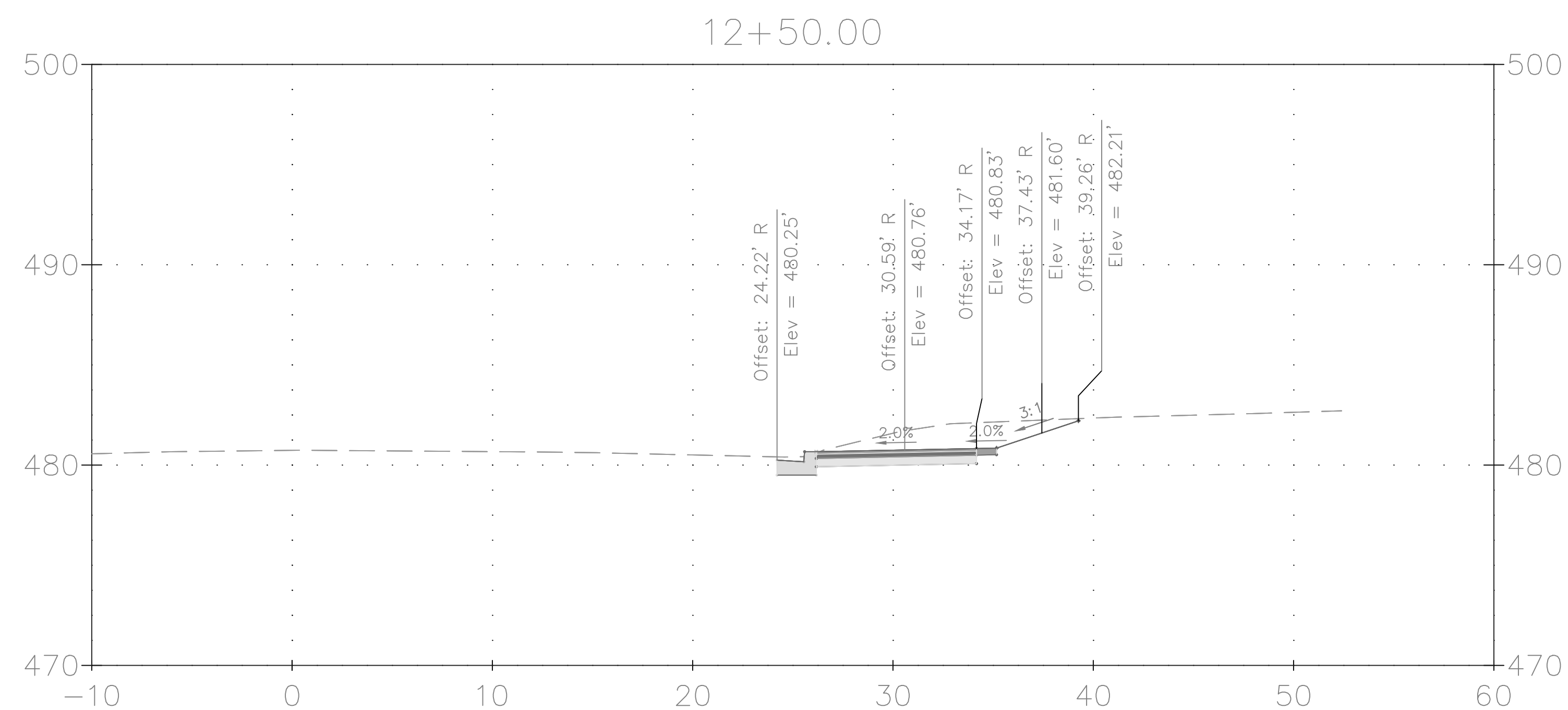
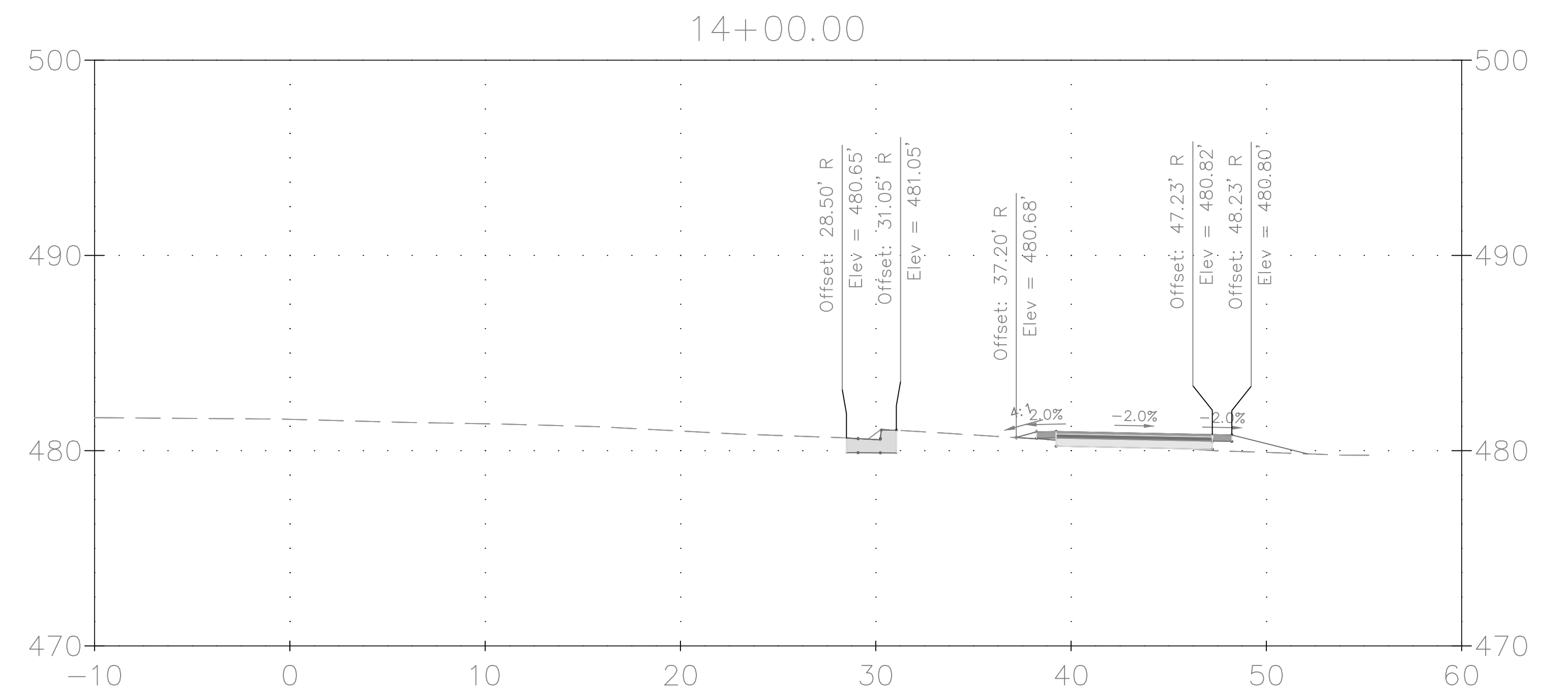
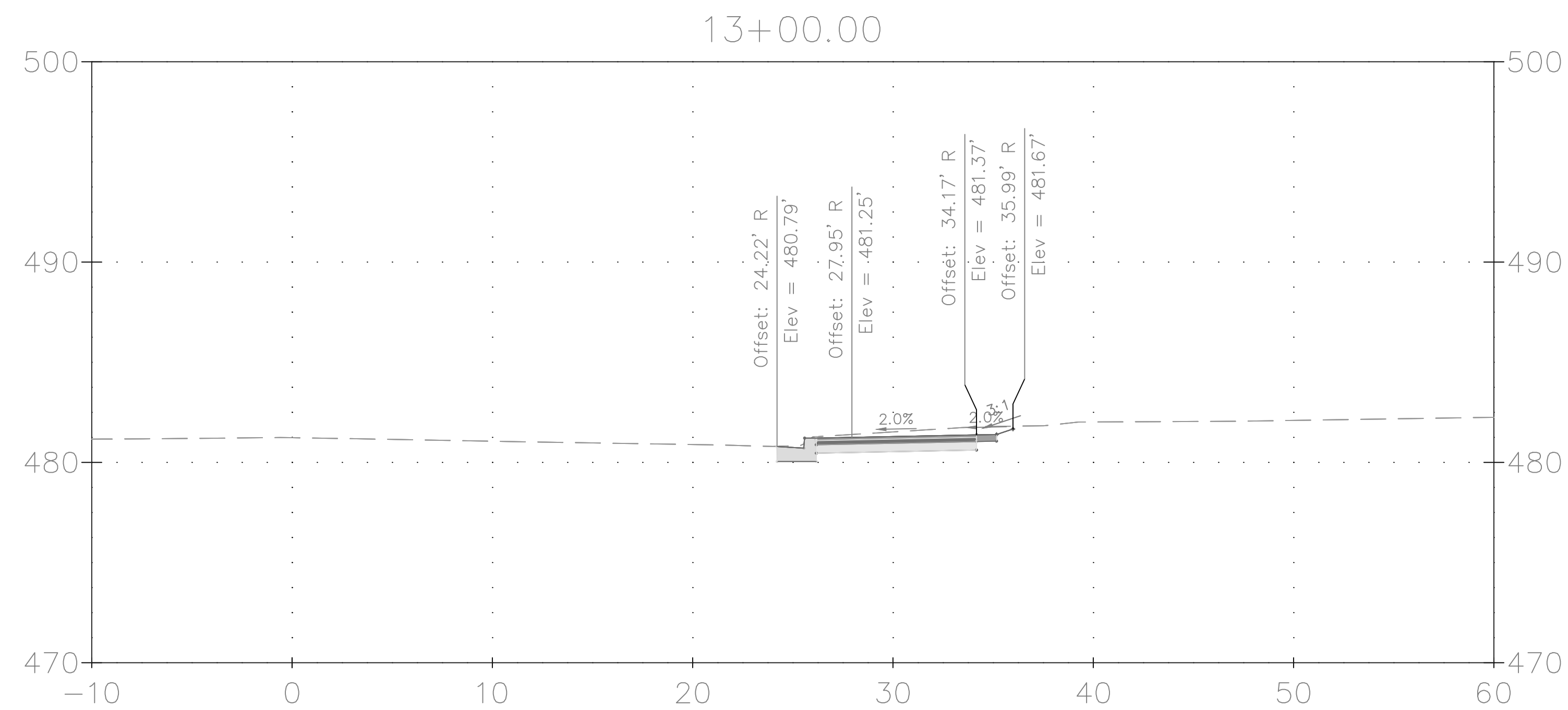
<p>DRAFT NOT FOR CONSTRUCTION</p> 					<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>		<p>XS-02 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p>	
					<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section _____ Date _____ APPROVED</p> <p>Chief, Division of Transportation Engineering _____ Date _____</p> <p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JUR</u></p>		<p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p> <p>Project No. : <u>501902</u> SHEET <u>49</u> of <u>75</u></p>	



<p>DRAFT NOT FOR CONSTRUCTION</p> 					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		<p>XS-03 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p>  <p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p>		
					RECOMMENDED FOR APPROVAL				
					Chief, Design Section APPROVED _____ Date _____				
					Chief, Division of Transportation Engineering APPROVED _____ Date _____				
	NO.	REVISION	DATE	BY	Designed by: <u>ADS</u>	Drawn by: <u>ADS</u>	Checked by: <u>JUR</u>	Project No.: <u>501902</u>	SHEET <u>50</u> of <u>75</u>



DRAFT NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			XS-05 CROSS SECTION GOOD HOPE ROAD SIDEWALK  SCALE: 1"=5' DATE: NOVEMBER 2019
					RECOMMENDED FOR APPROVAL			
					Chief, Design Section _____ Date _____ APPROVED			
					Chief, Division of Transportation Engineering _____ Date _____			
					Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u>			
					Project No. : <u>501902</u> SHEET <u>52</u> of <u>75</u>			
	NO.	REVISION	DATE	BY				



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NOT FOR CONSTRUCTION

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

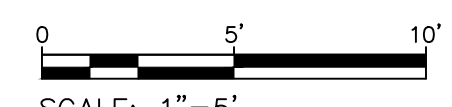
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering _____ Date _____

Designed by:	ADS	Drawn by:	ADS	Checked by:	JJR
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XS-07 CROSS SECTION

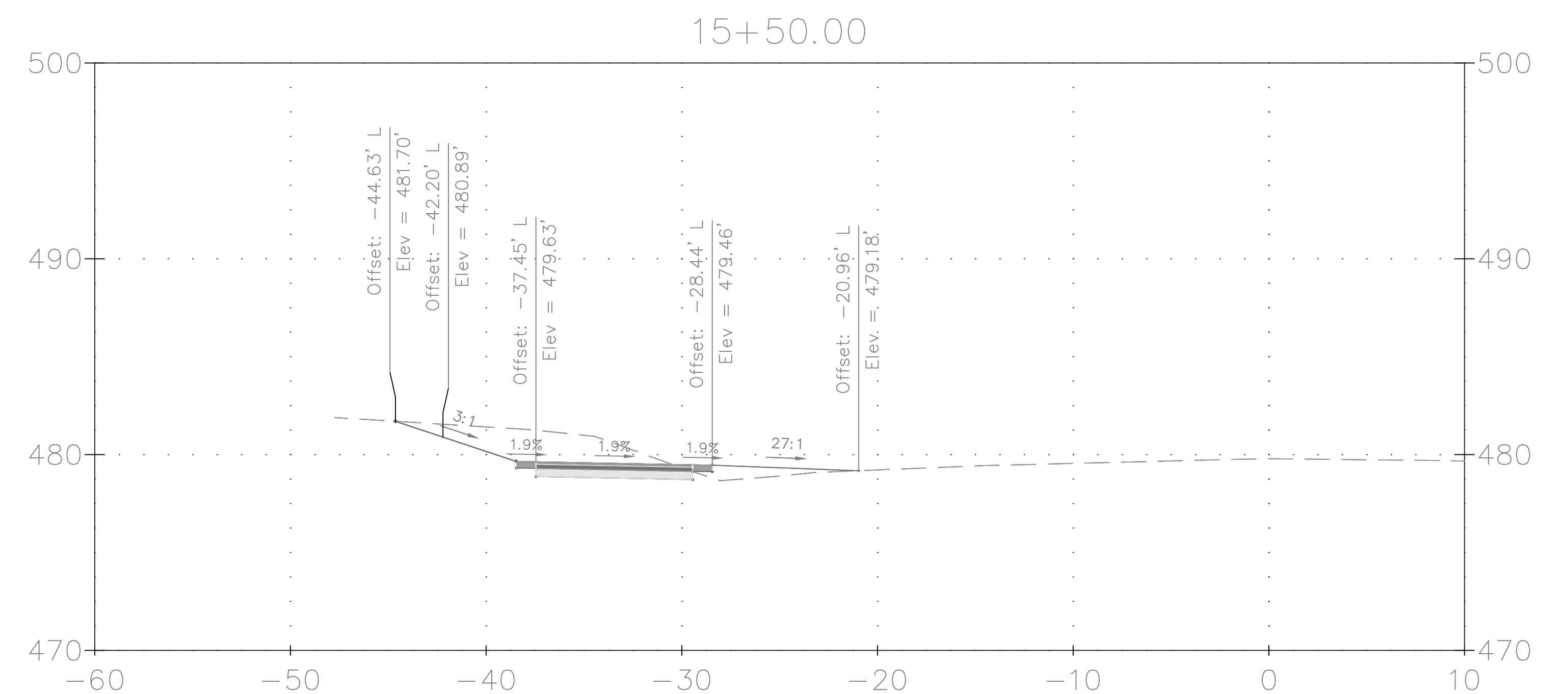
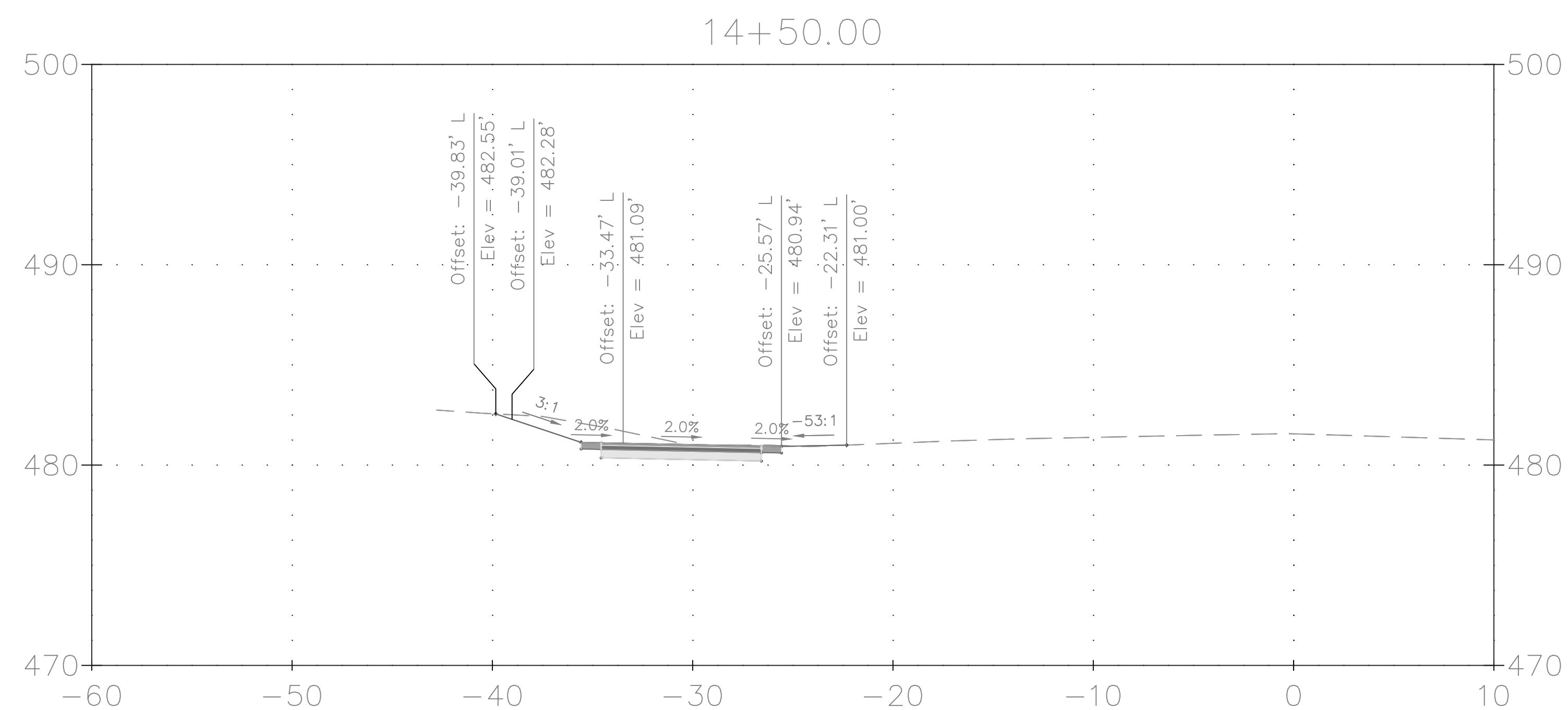
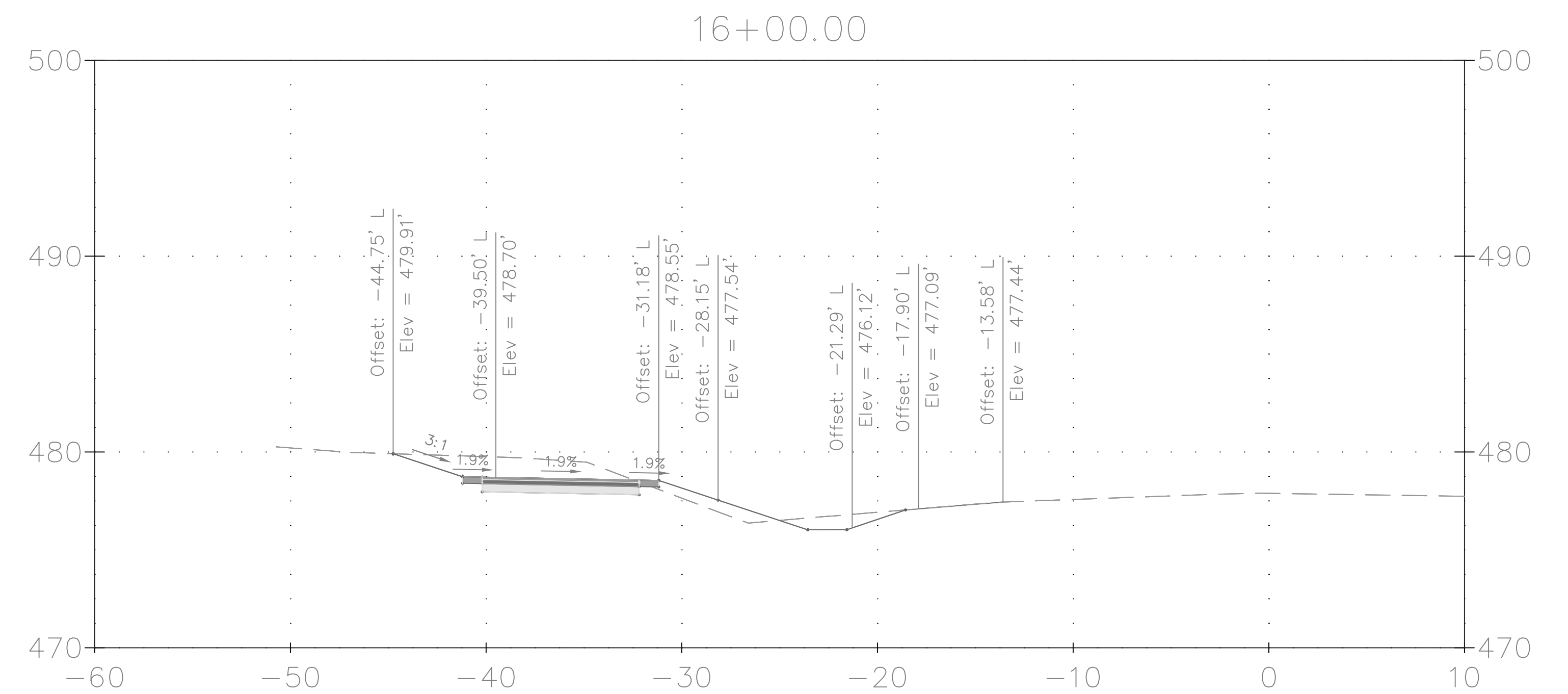
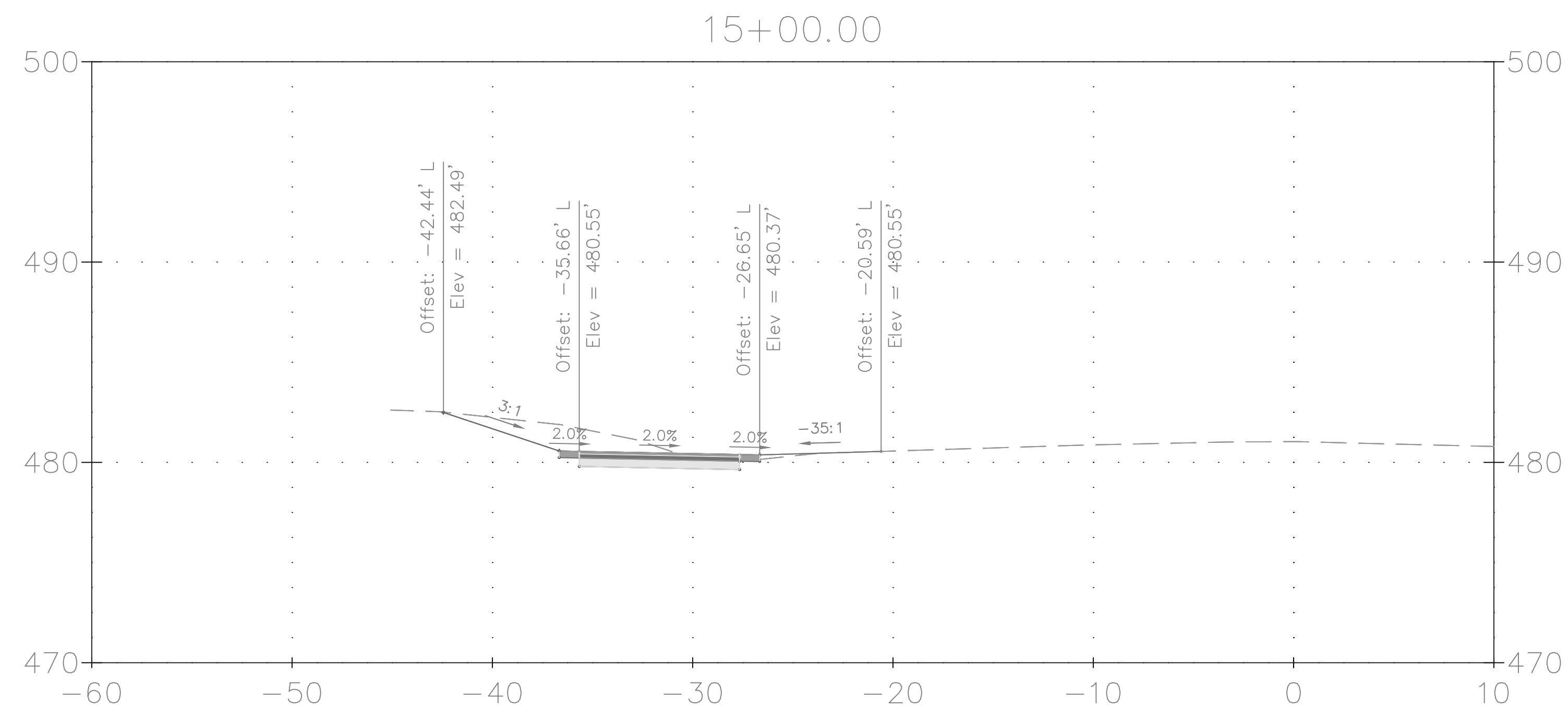
GOOD HOPE ROAD
SIDEWALK



SCALE: 1"=5'

DATE: NOVEMBER 2019

Project No. : 501902 SHEET 54 of 75



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NOT FOR CONSTRUCTION

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

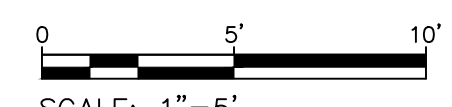
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering _____ Date _____

Designed by:	ADS	Drawn by:	ADS	Checked by:	JJR
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XS-08 CROSS SECTION

GOOD HOPE ROAD
SIDEWALK

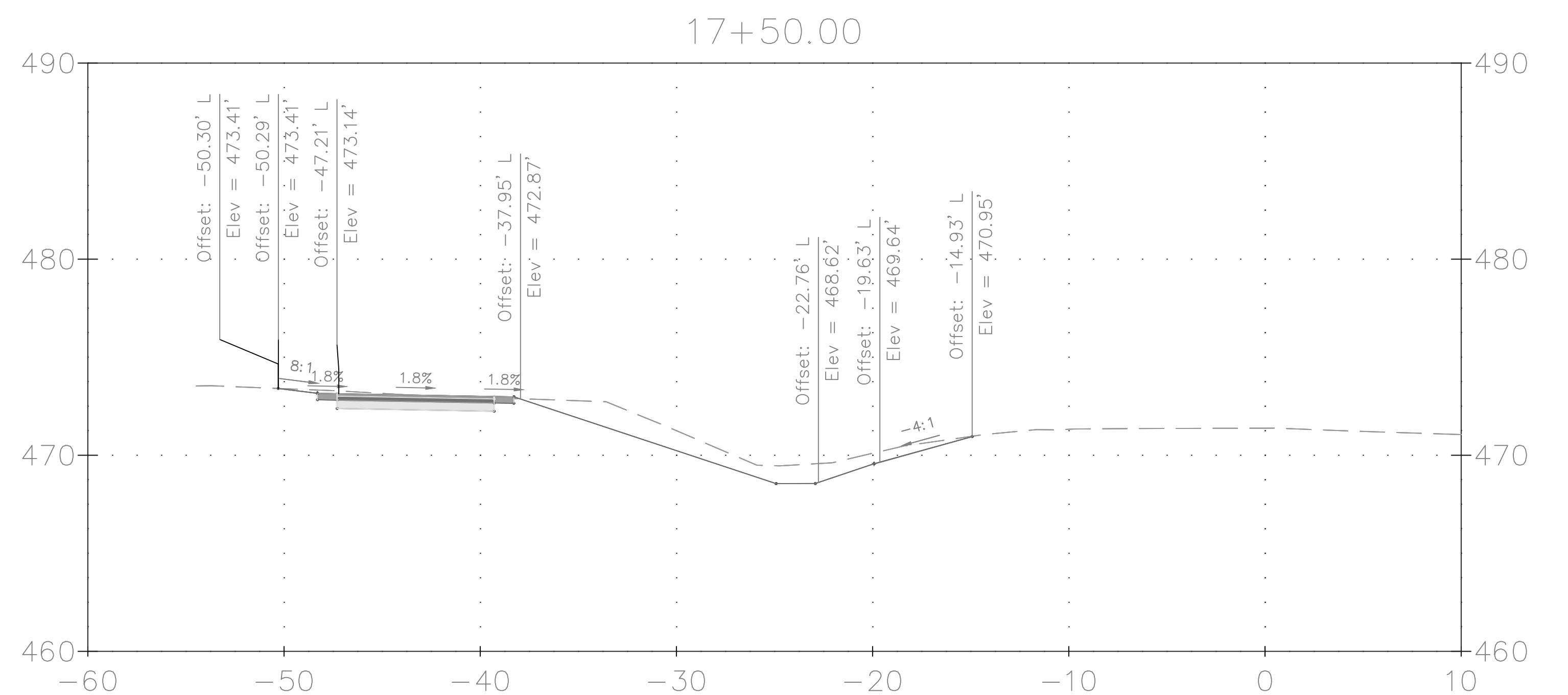
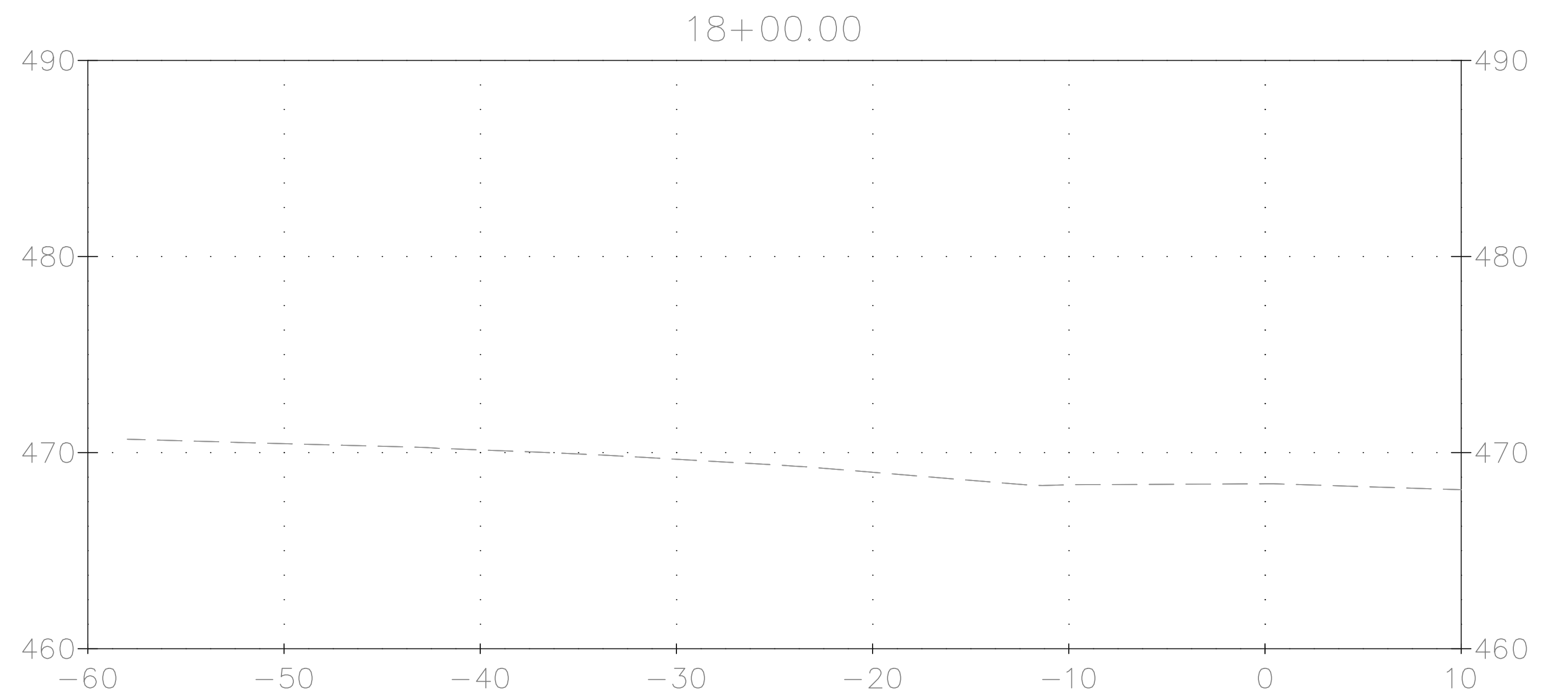


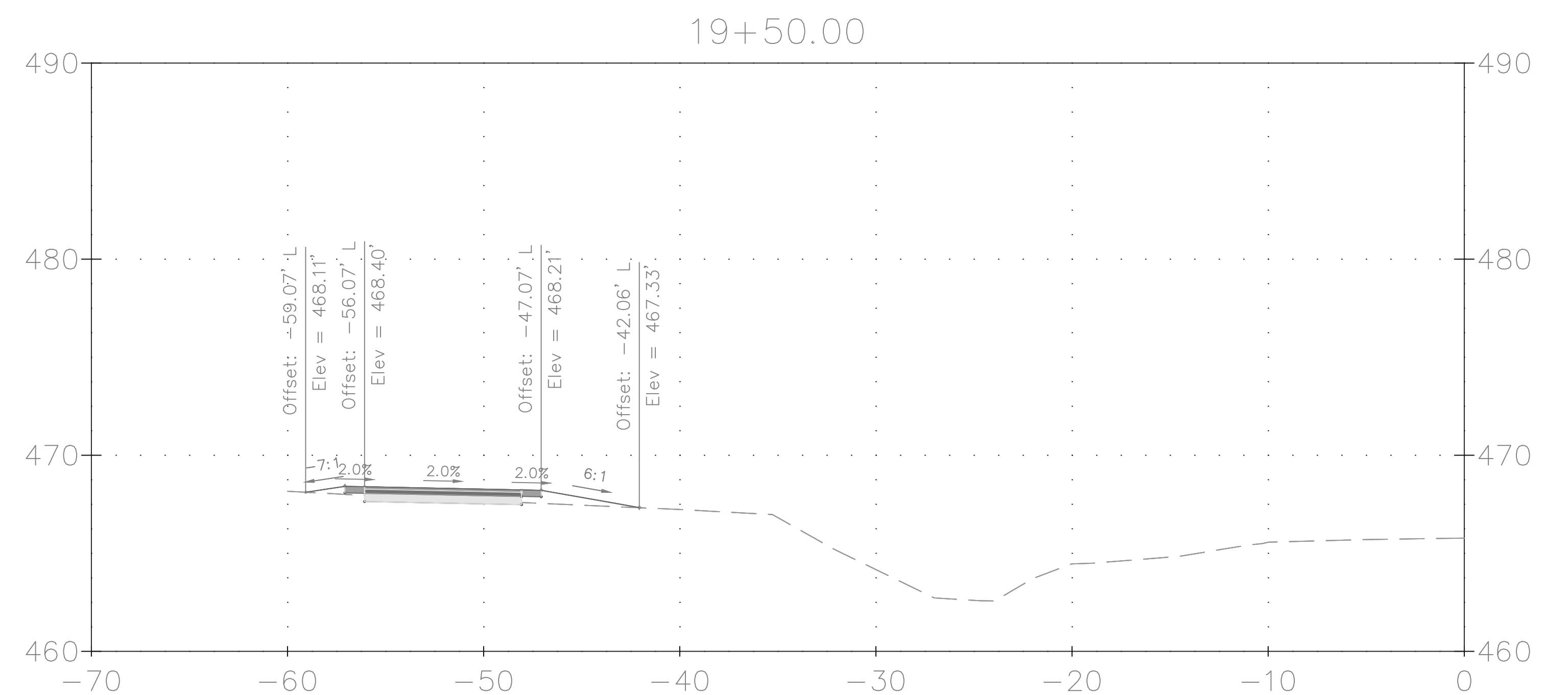
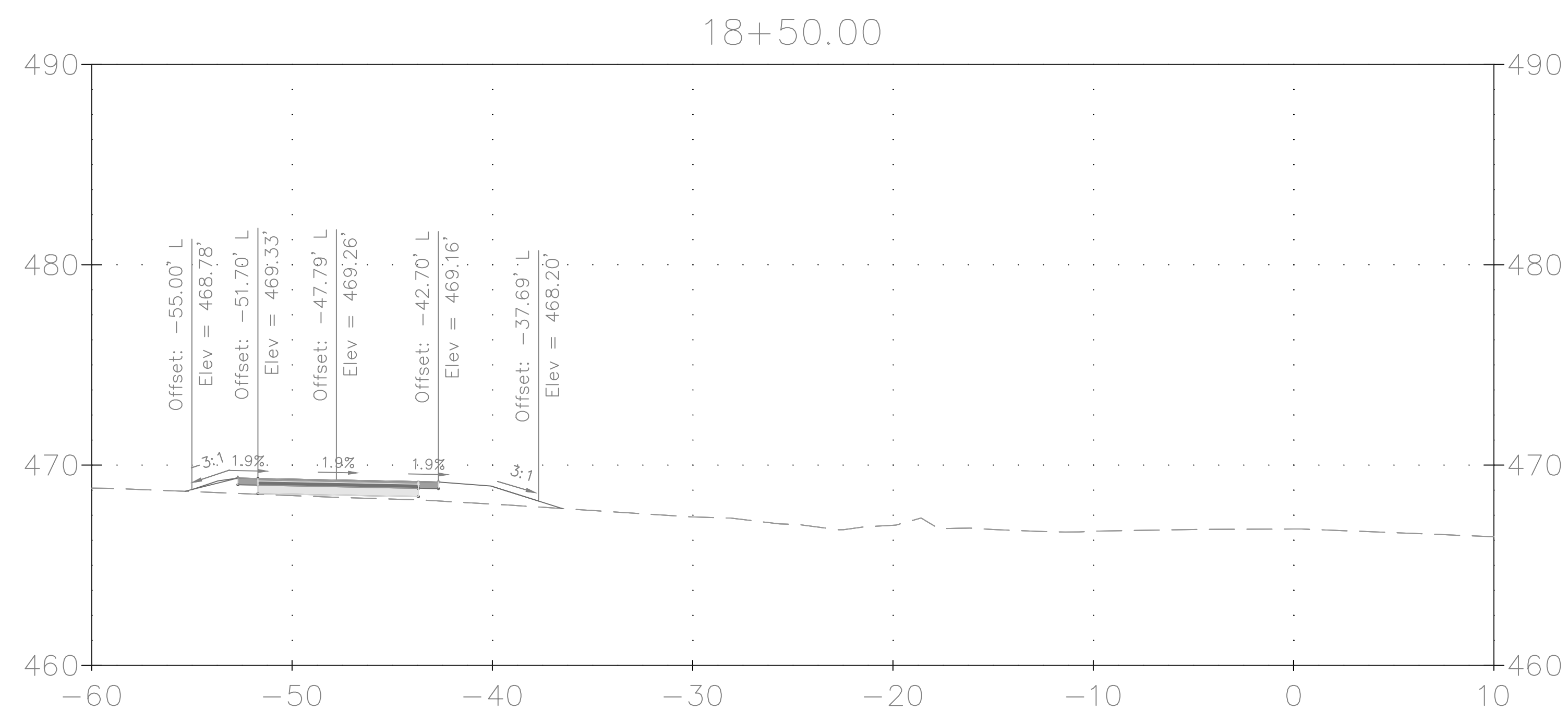
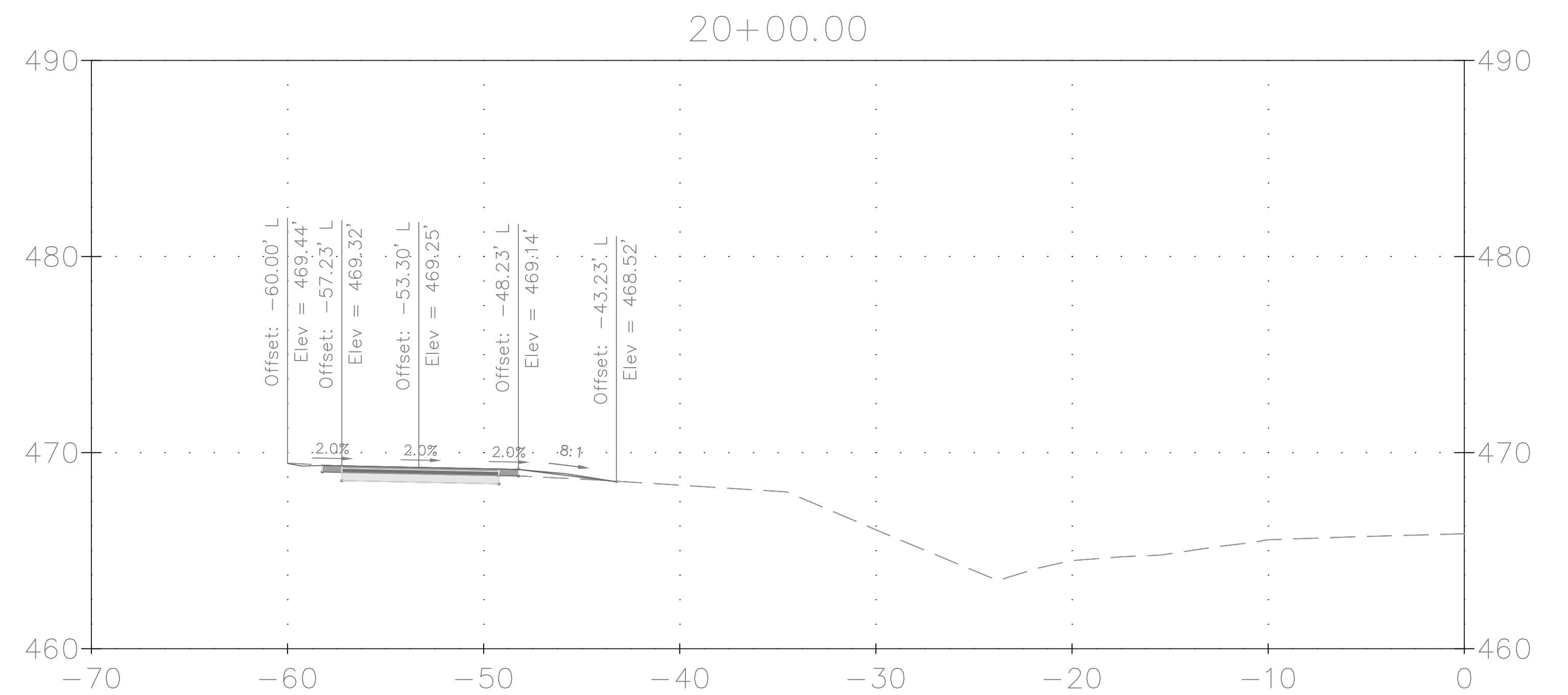
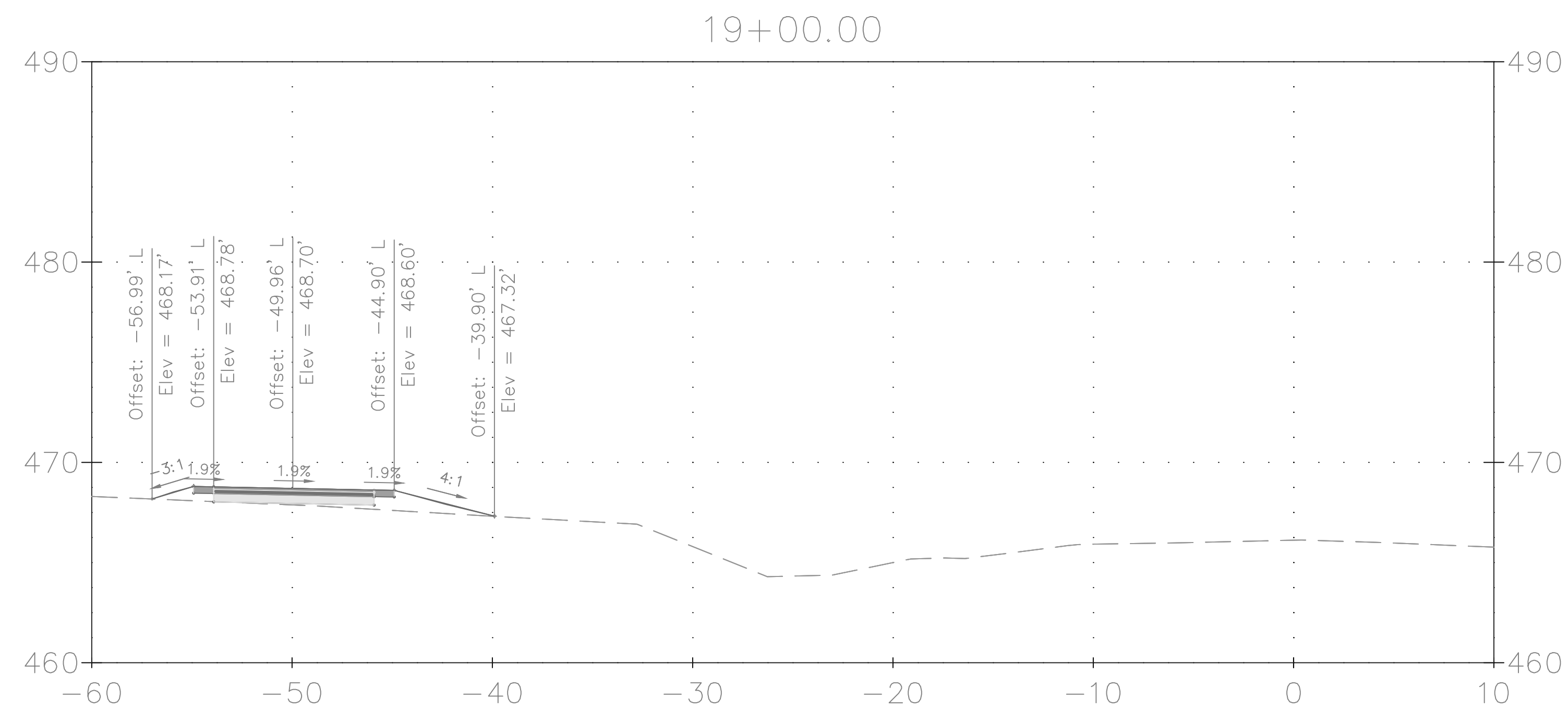
SCALE: 1"=5'

DATE: NOVEMBER 2019

Project No. : 501902

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NOT FOR CONSTRUCTION



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

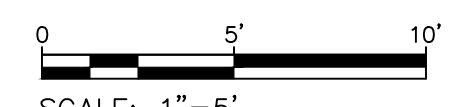
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering Date

Designed by: ADS Drawn by: ADS Checked by: JJR

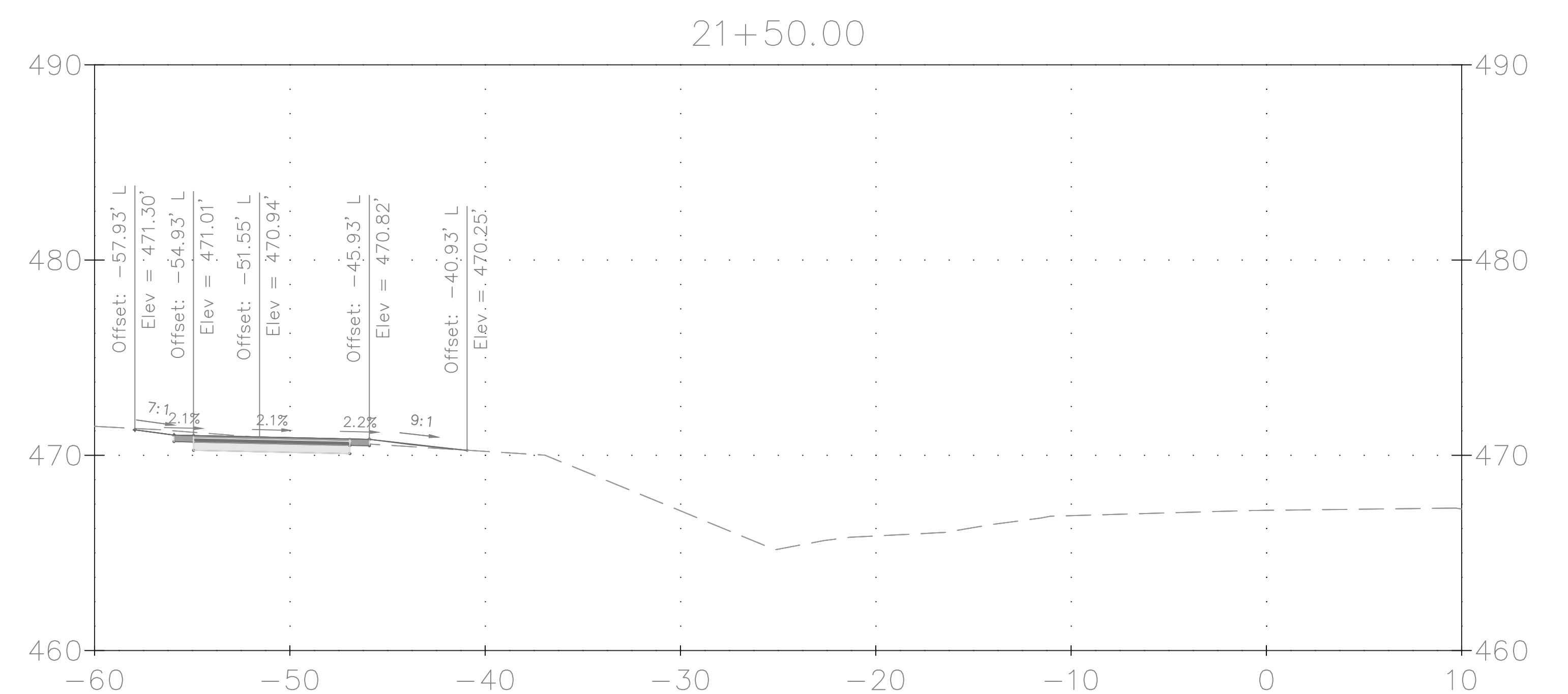
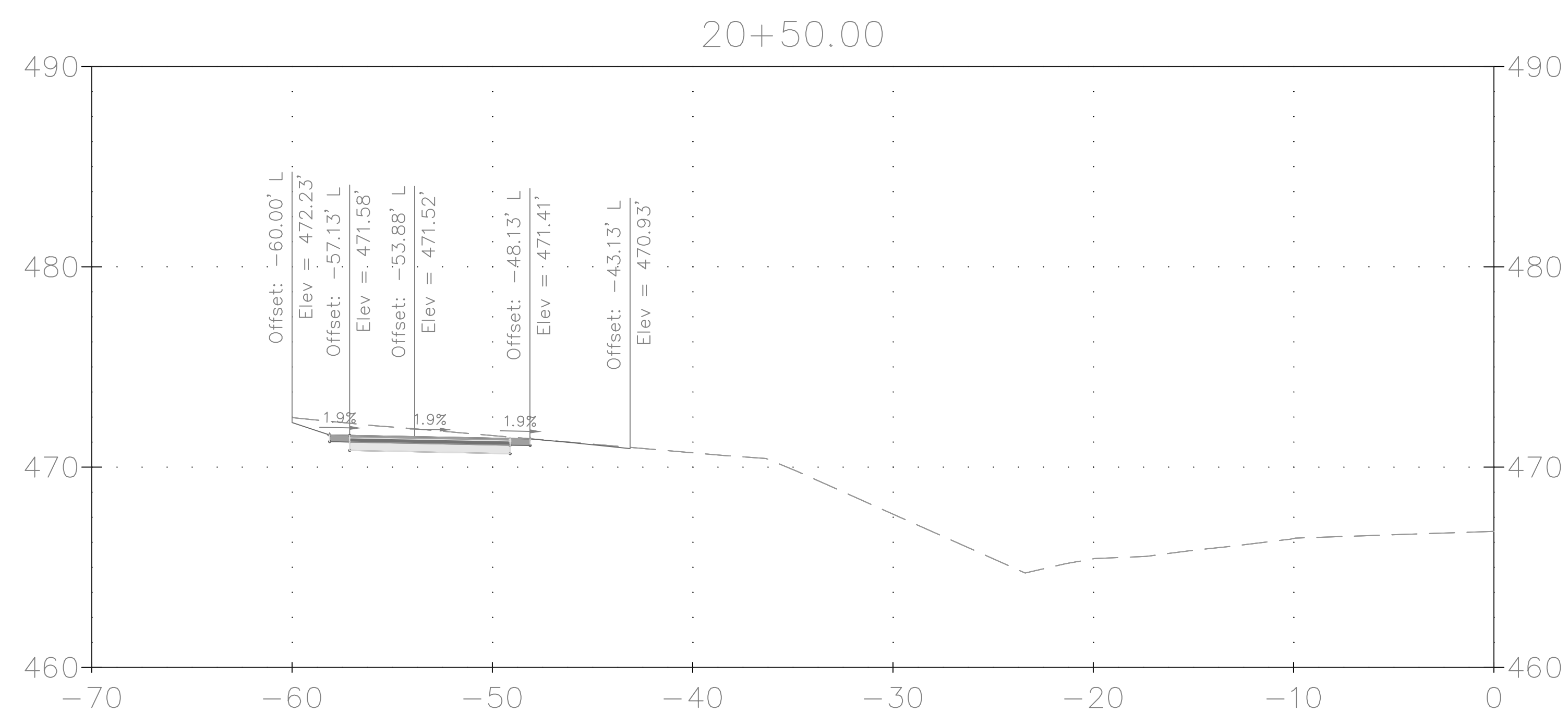
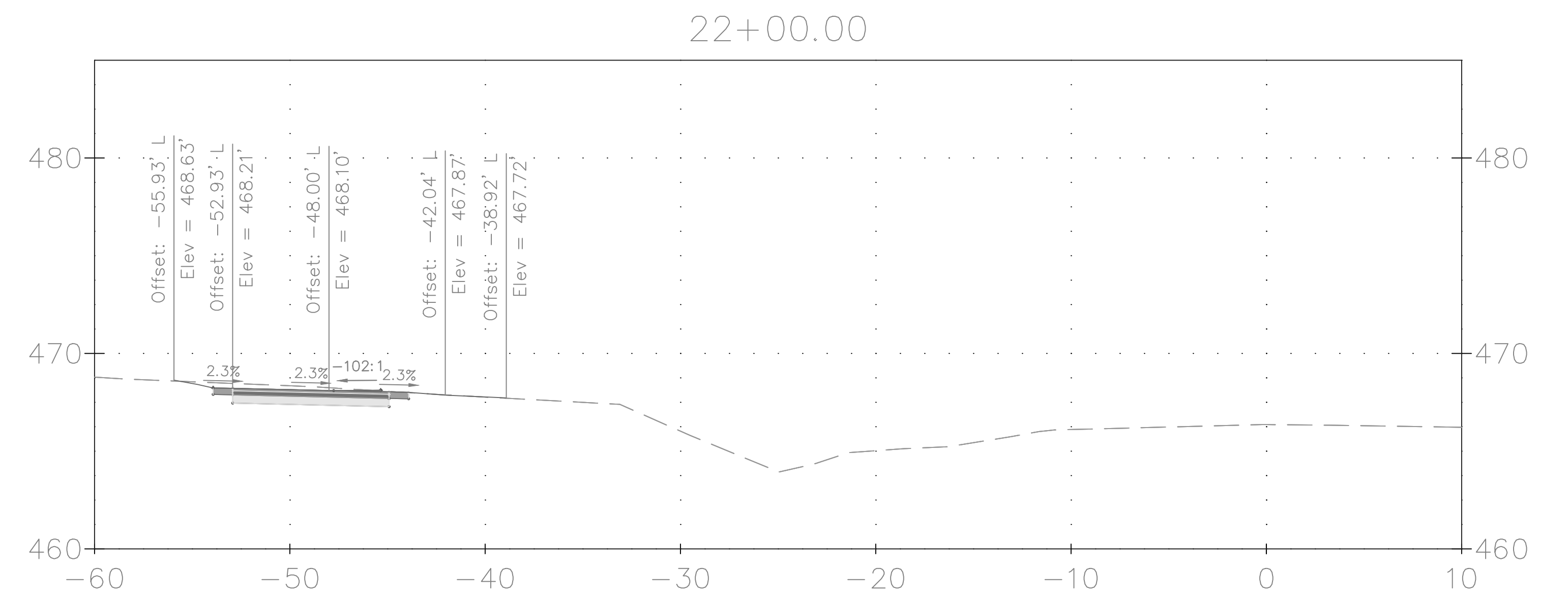
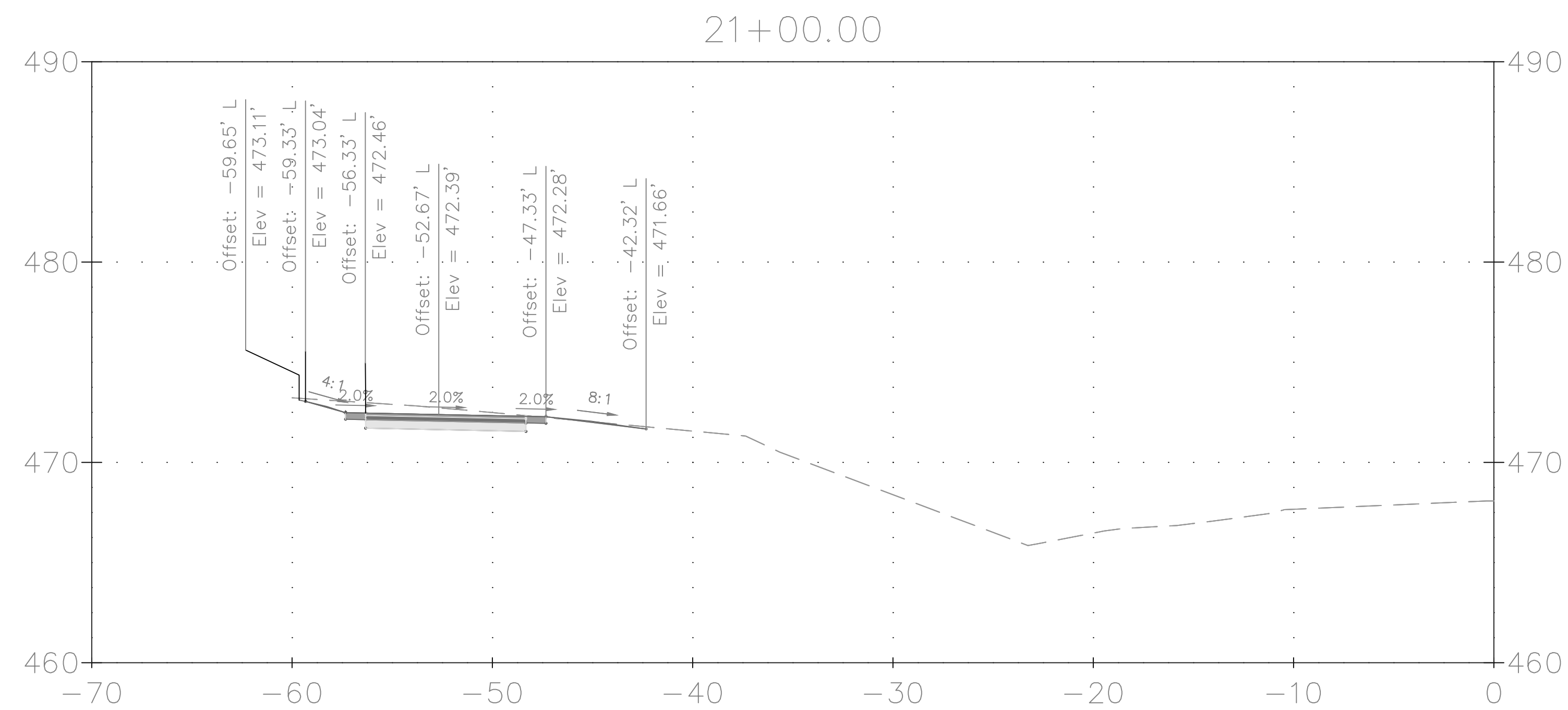
XS-10 CROSS SECTION

GOOD HOPE ROAD
SIDEWALK



DATE: NOVEMBER 2019

Project No. : 501902 SHEET 57 of 75



DRAFT
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

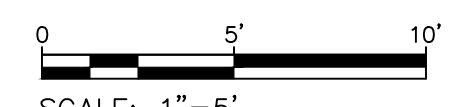
Chief, Design Section	Date
APPROVED	

 Chief, Division of Transportation Engineering Date _____

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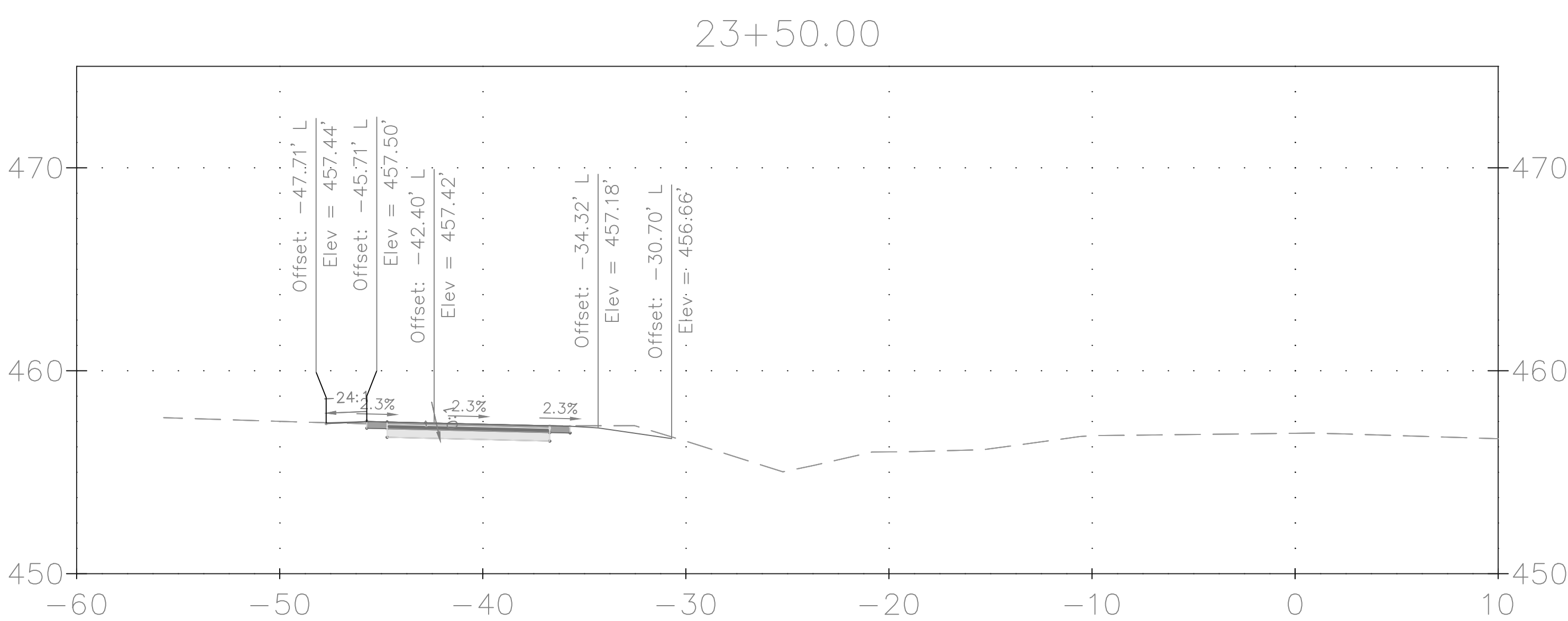
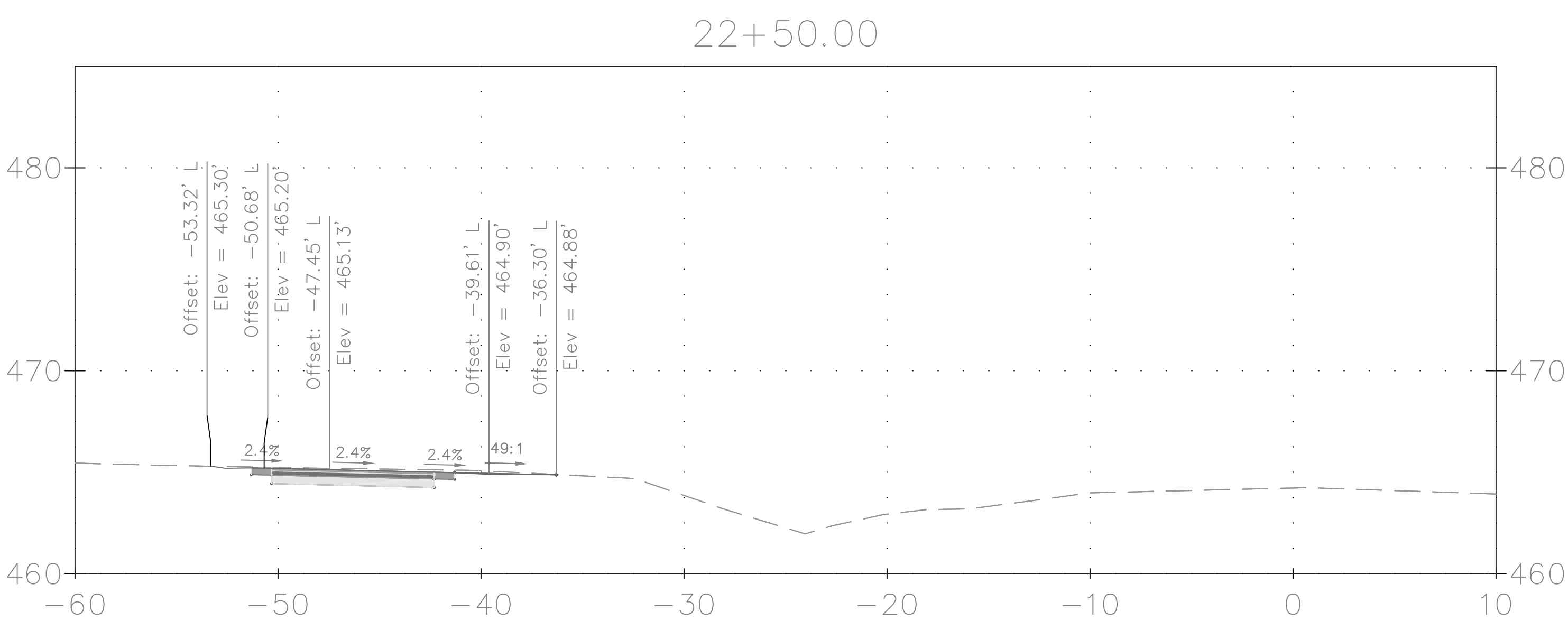
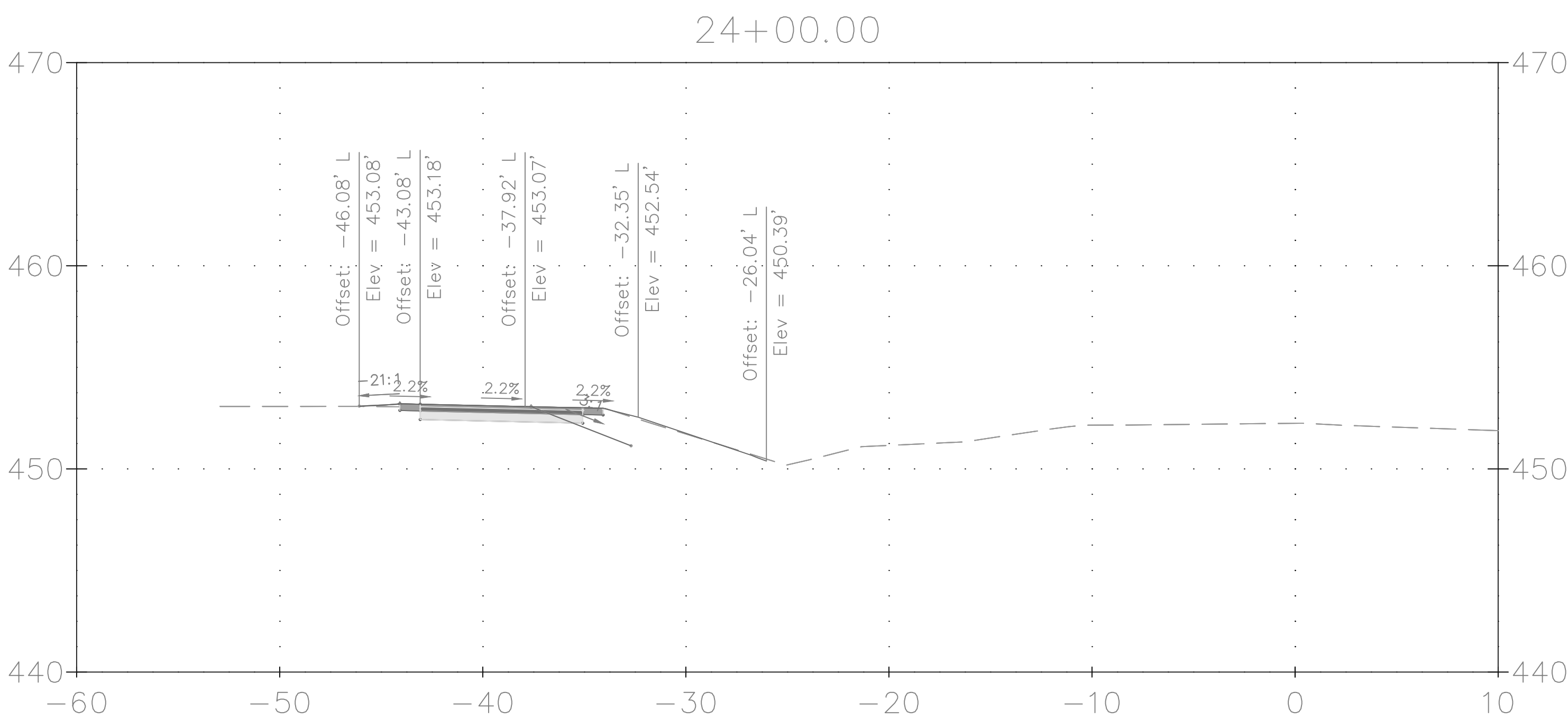
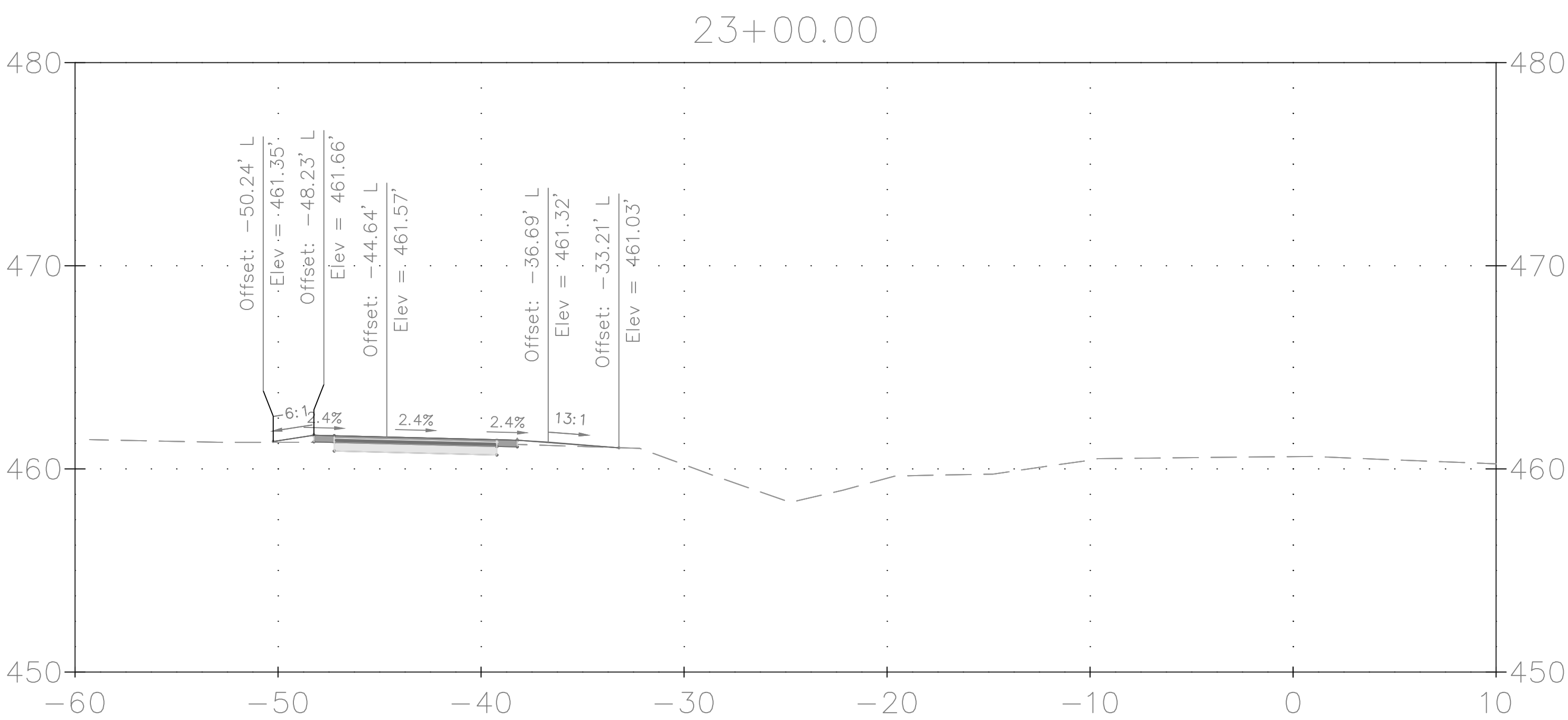
XS-11 CROSS SECTION


GOOD HOPE ROAD
SIDEWALK

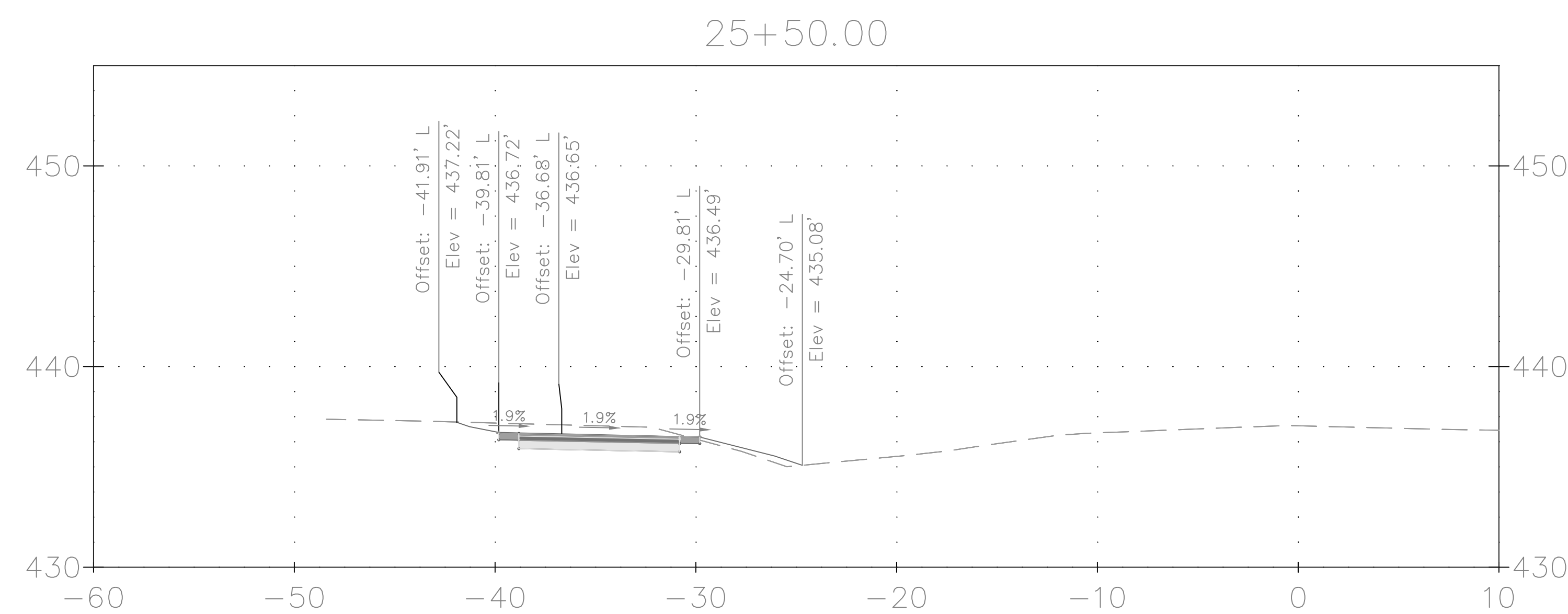
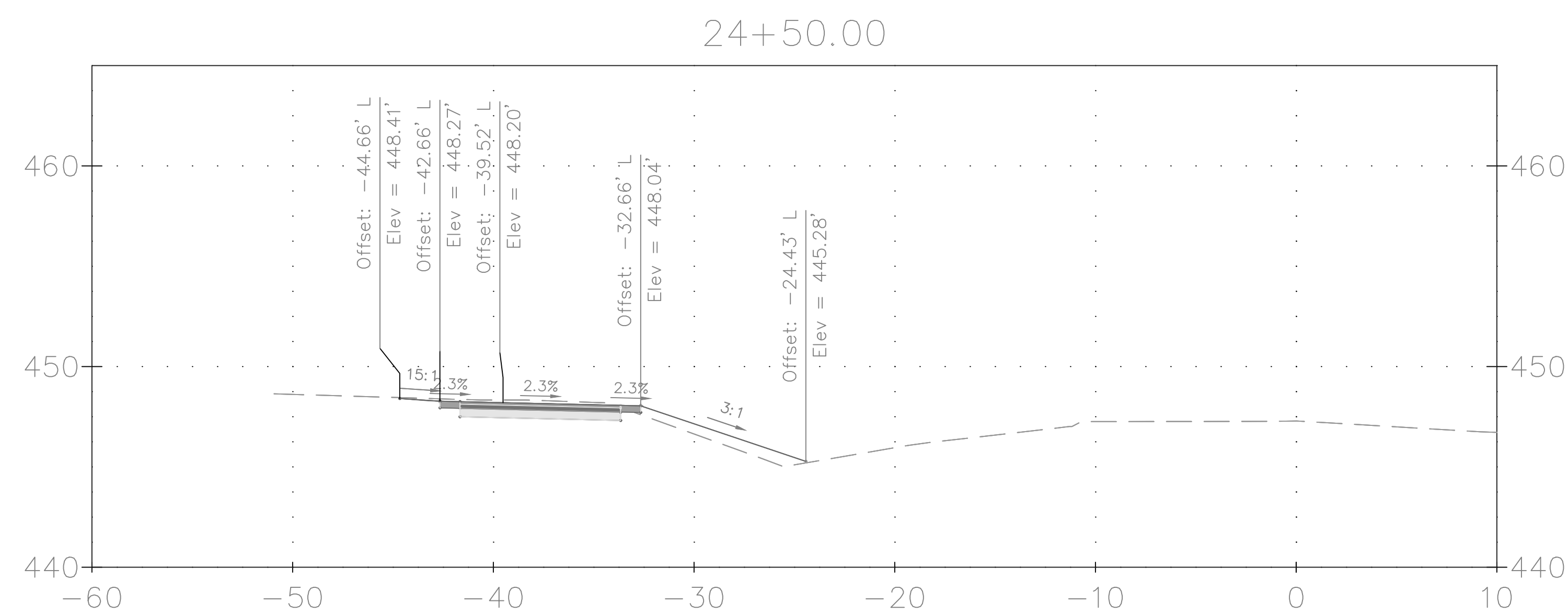
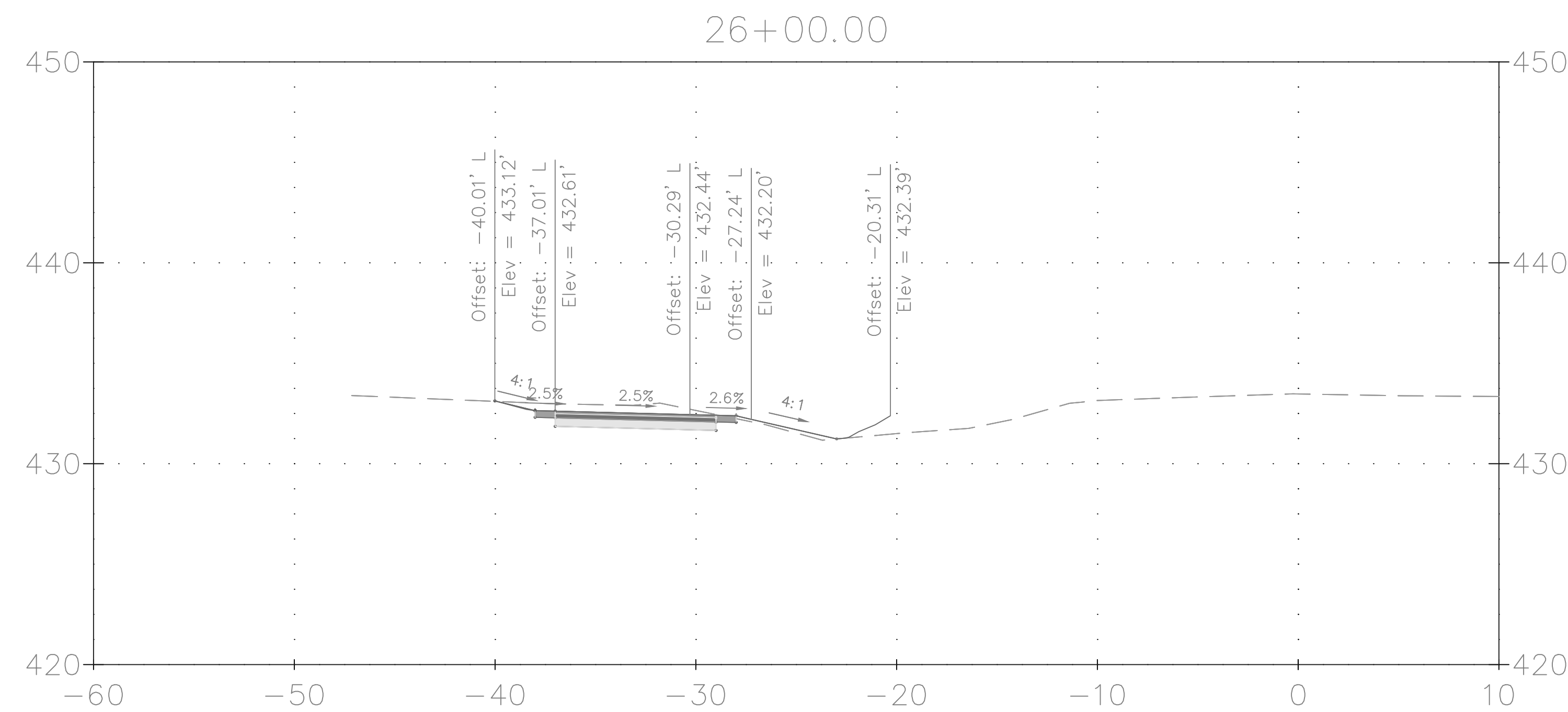
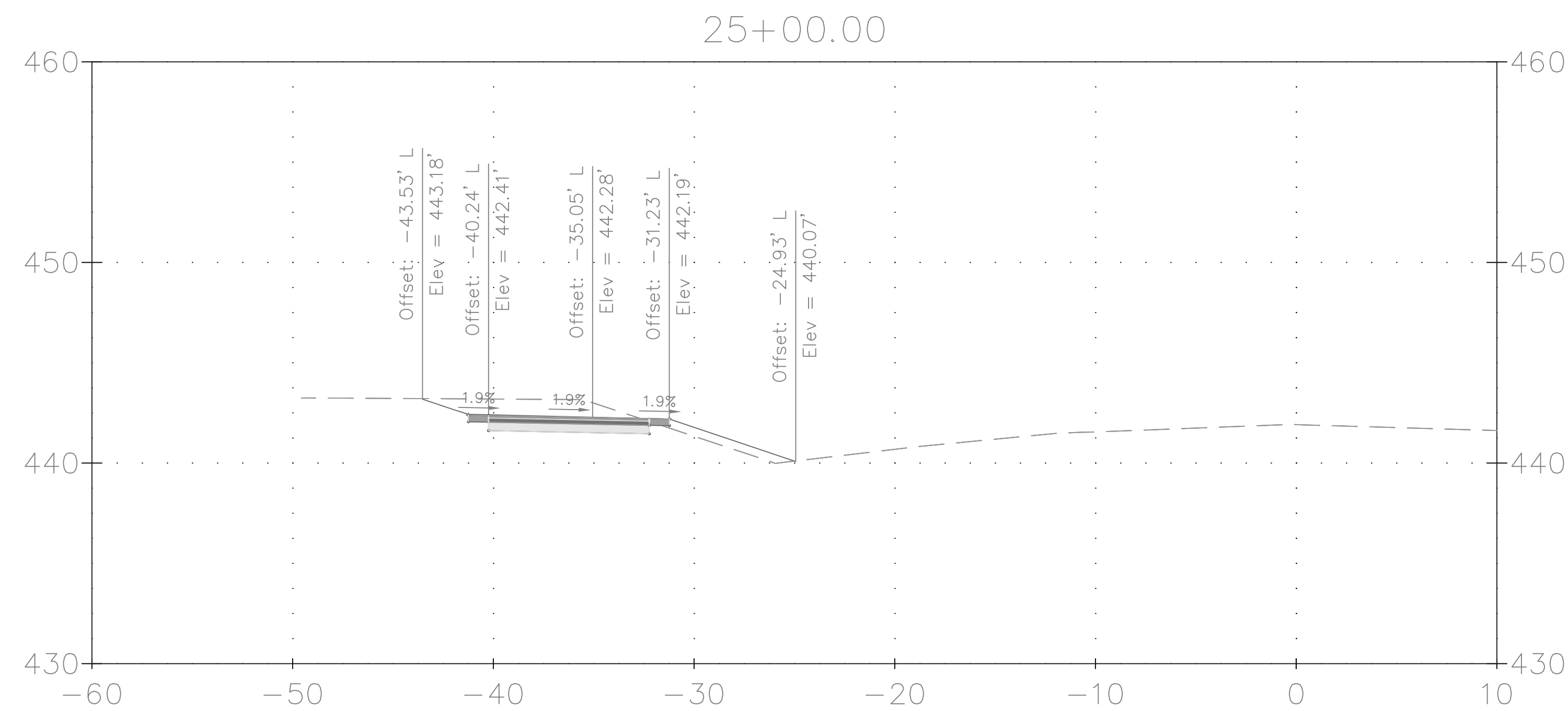



DATE: NOVEMBER 2019

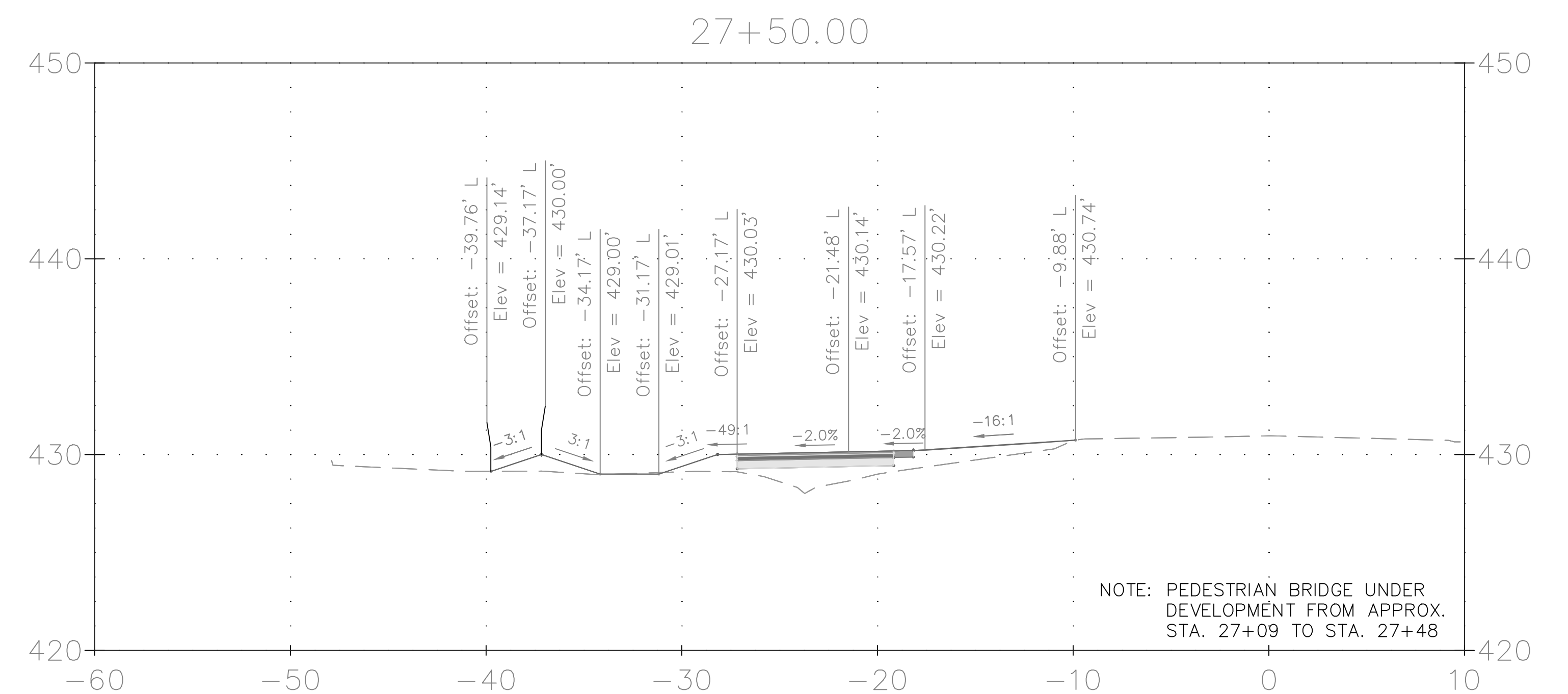
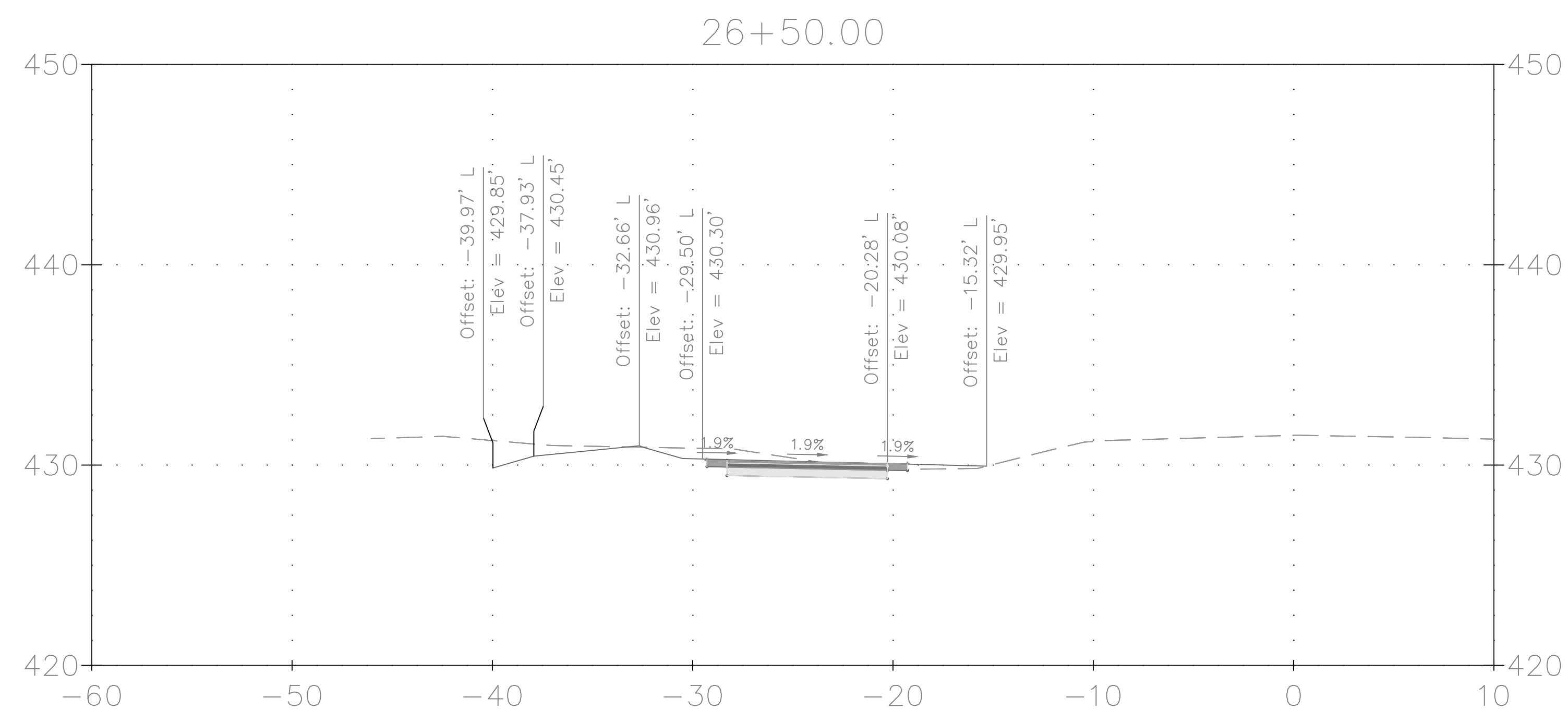
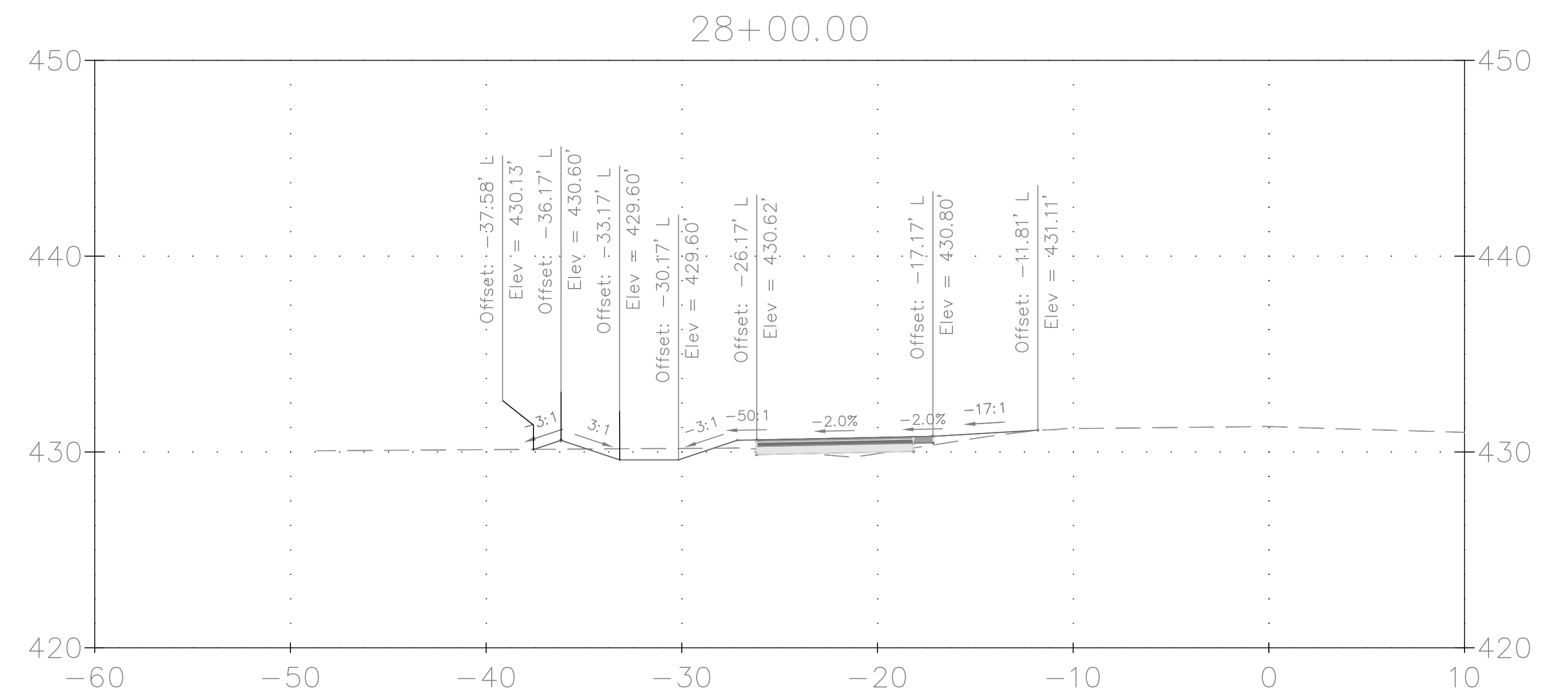
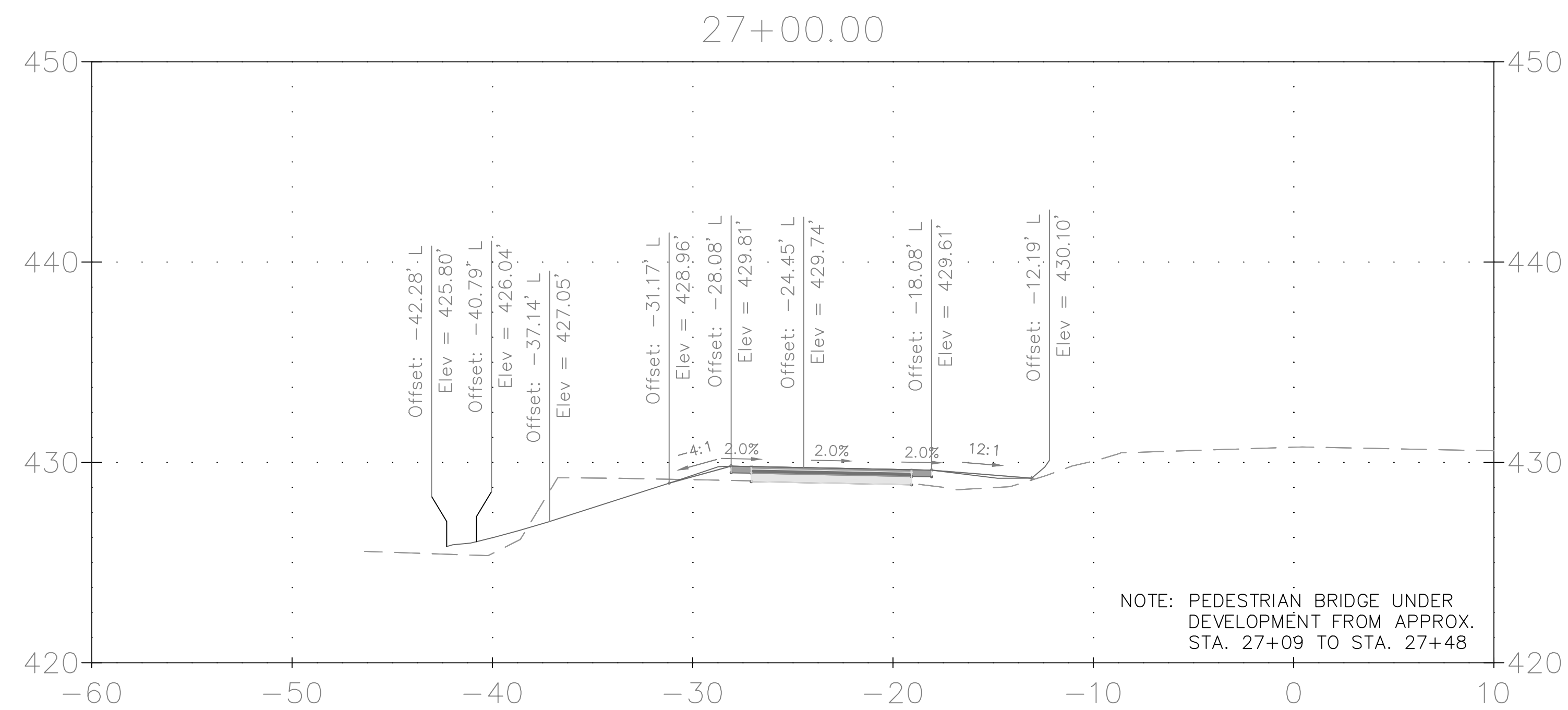
Project No. : 501902 SHEET 58 of 75



<p>DRAFT NOT FOR CONSTRUCTION</p> 	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th><th>BY</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE	BY																																					<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>	<p>XS-12 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p> <p>0 5' 10'</p> <p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p>
		NO.	REVISION	DATE	BY																																						
<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section APPROVED _____ Date _____</p> <p>Chief, Division of Transportation Engineering APPROVED _____ Date _____</p> <p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>		<p>Project No. : <u>501902</u> SHEET <u>59</u> of <u>75</u></p>																																									



<p>DRAFT NOT FOR CONSTRUCTION</p> 	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th><th>BY</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE	BY																																					<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>	<p>XS-13 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p> <p>0 5' 10'</p> <p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p>
		NO.	REVISION	DATE	BY																																						
<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section APPROVED _____ Date _____</p> <p>Chief, Division of Transportation Engineering APPROVED _____ Date _____</p> <p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>		<p>Project No. : <u>501902</u> SHEET <u>60</u> of <u>75</u></p>																																									



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NOT FOR CONSTRUCTION

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

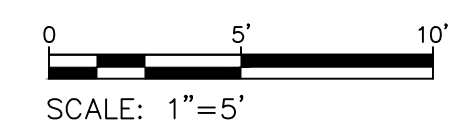
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering Date

Designed by:	ADS	Drawn by:	ADS	Checked by:	JJR
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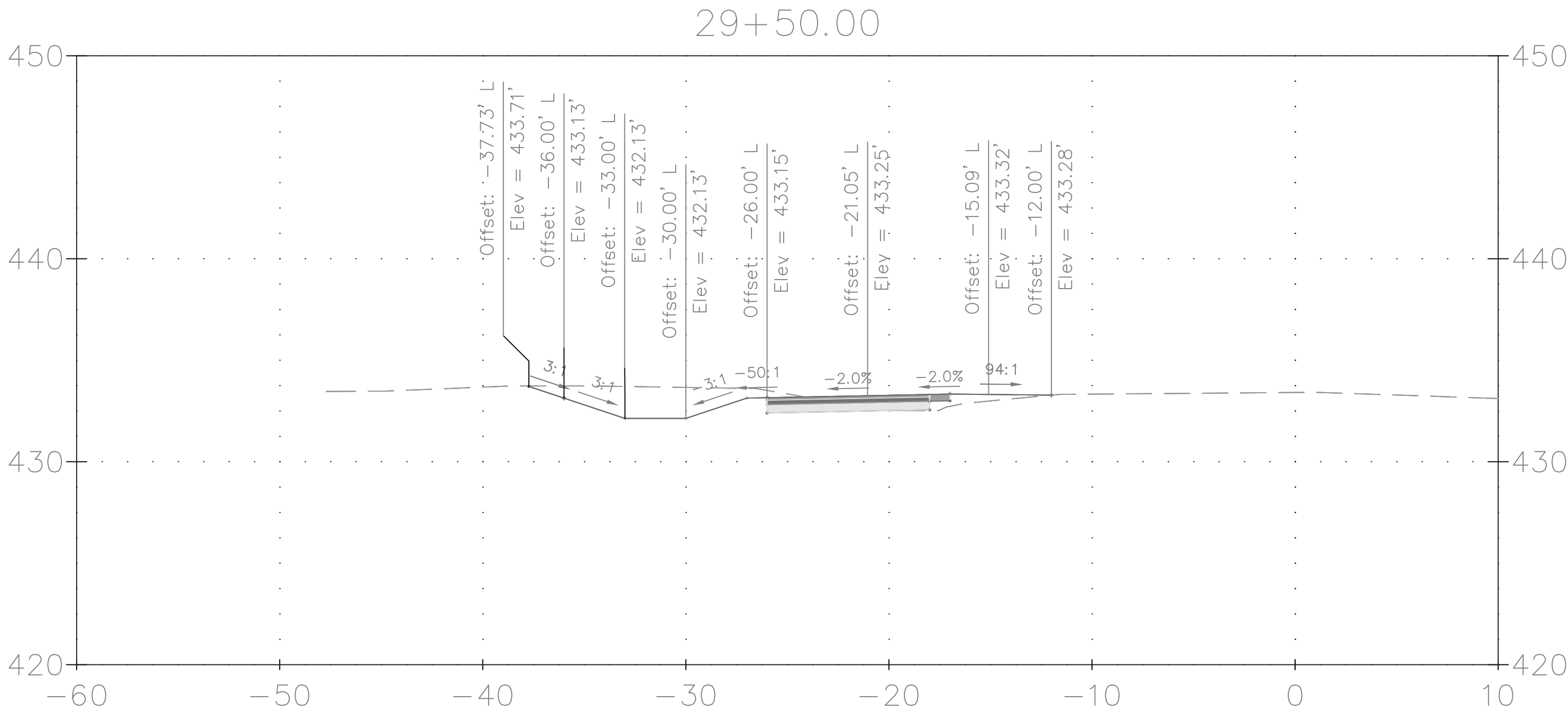
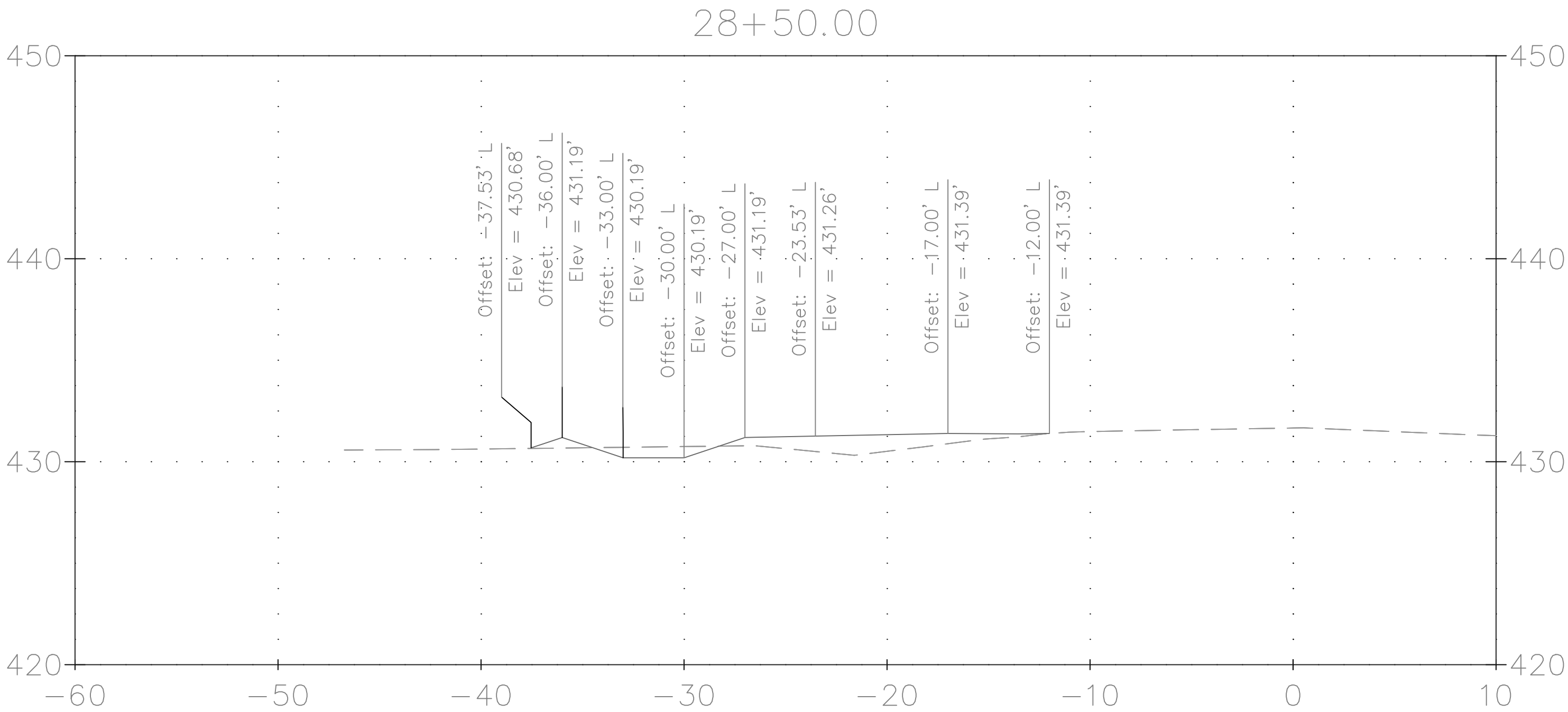
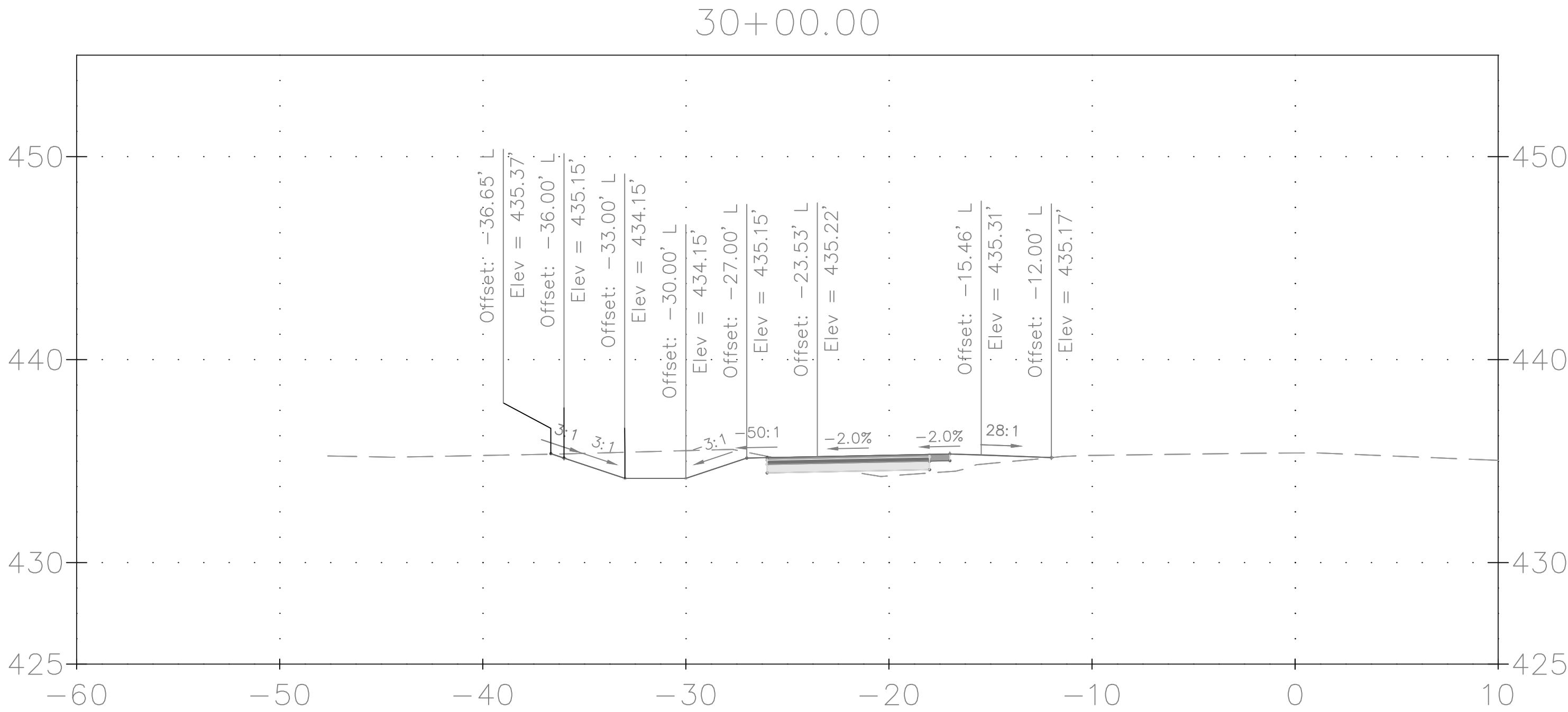
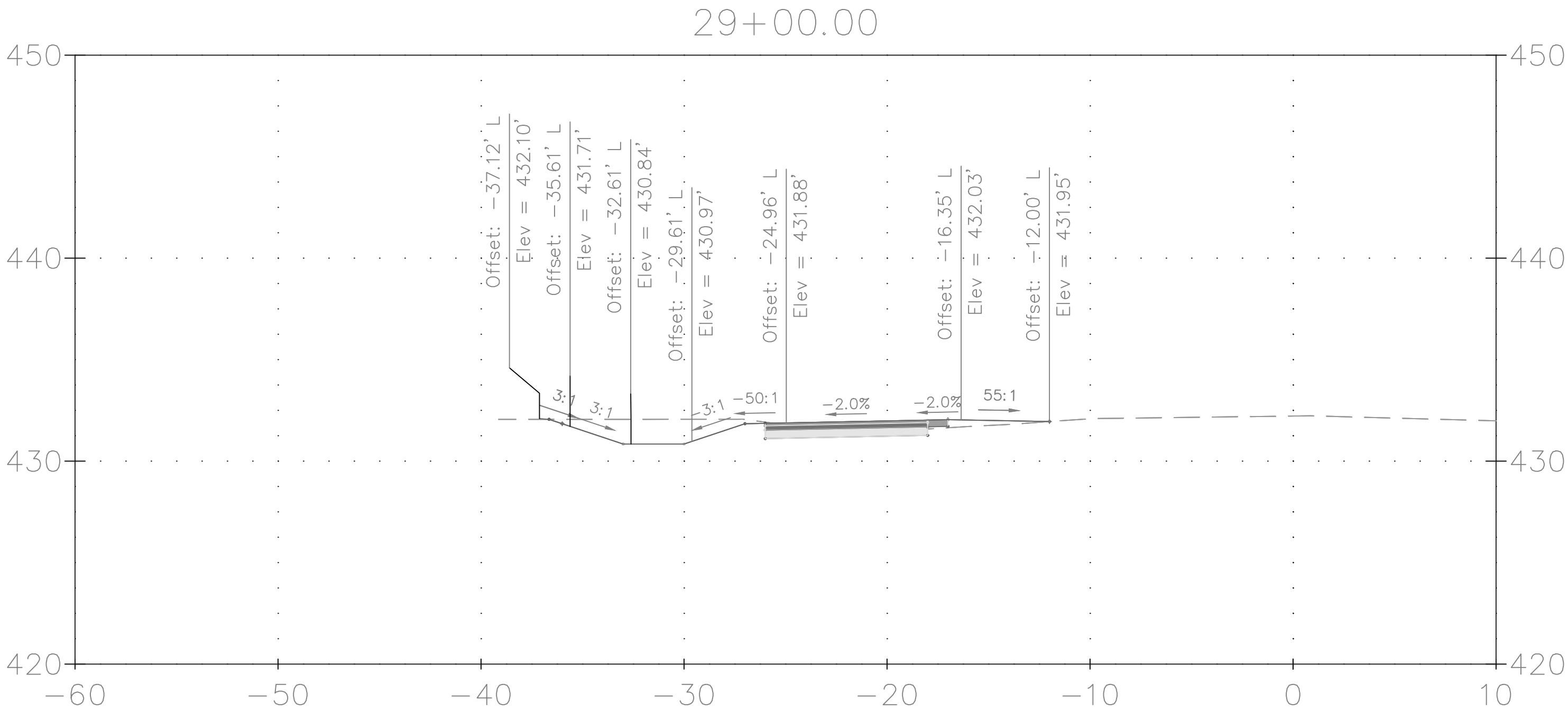
XS-14 CROSS SECTION



GOOD HOPE ROAD
SIDEWALK

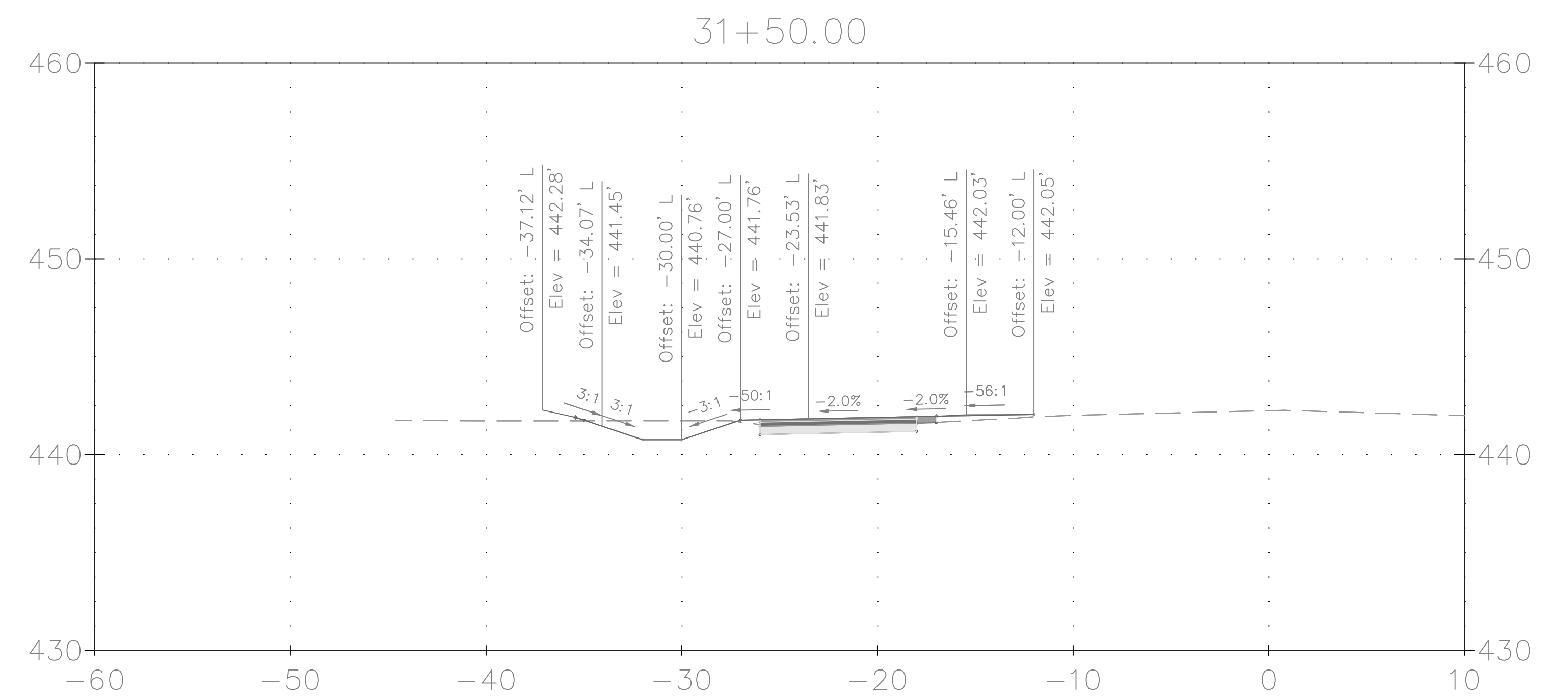
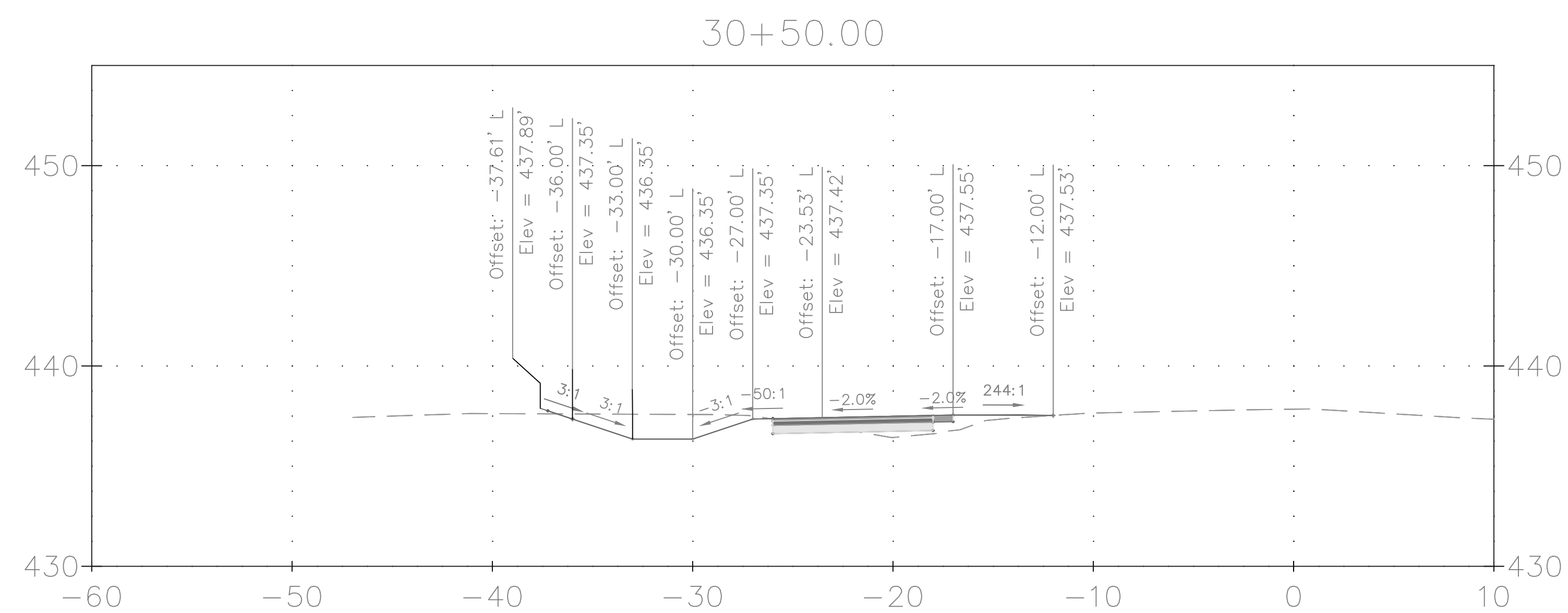
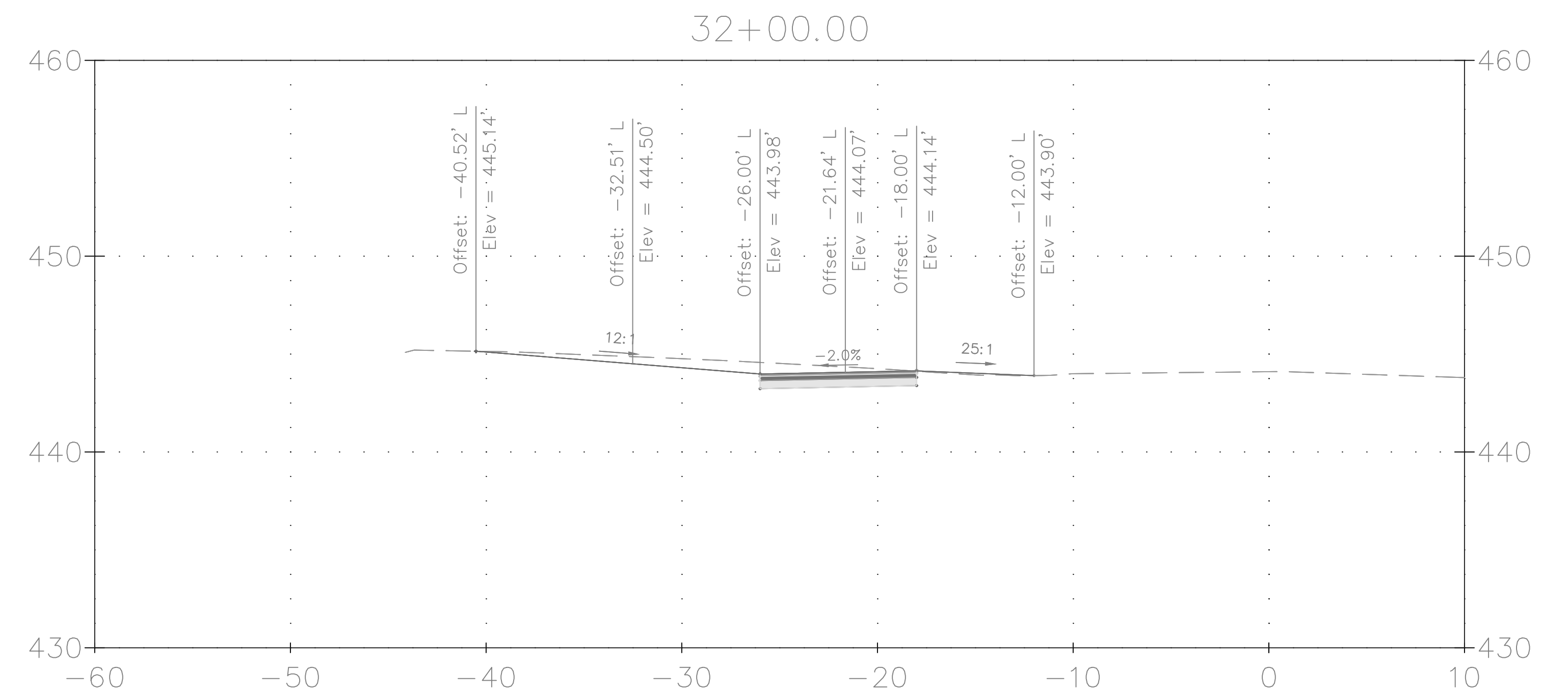
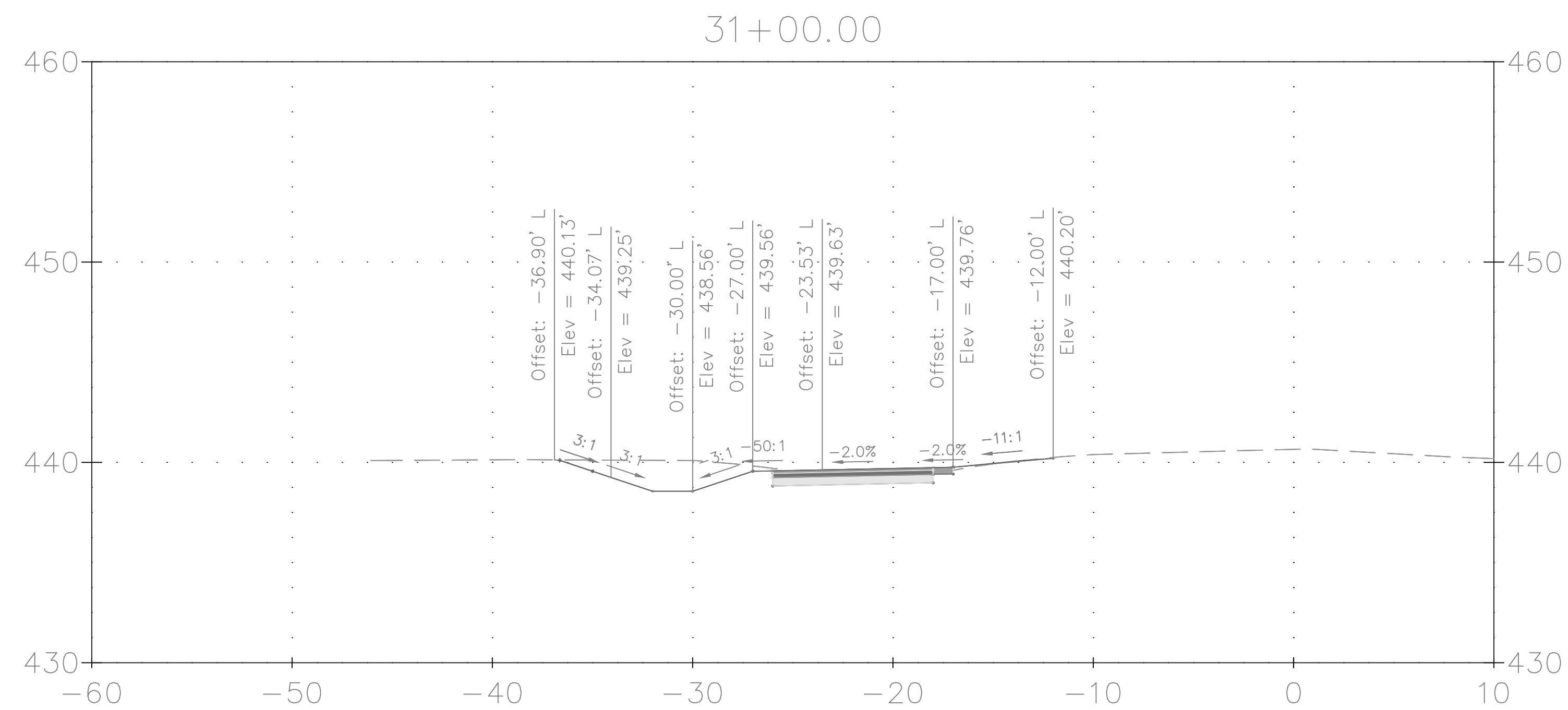


DATE: NOVEMBER 2019

Project No. : 501902 SHEET 61 of 75



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				RECOMMENDED FOR APPROVAL				<div> SCALE: 1"=5'</div> <div>DATE: NOVEMBER 2019</div>			
				_____ Chief, Design Section APPROVED _____ Date							
				_____ Chief, Division of Transportation Engineering _____ Date							
				Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u>							
				Project No. : <u>501902</u>							
NO.	REVISION	DATE	BY					SHEET <u>62</u> of <u>75</u>			



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NOT FOR CONSTRUCTION

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

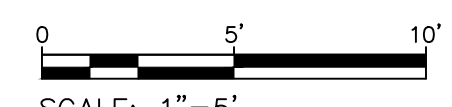
Chief, Design Section	Date
APPROVED	

 Chief, Division of Transportation Engineering Date _____

Designed by: ADS Drawn by: ADS Checked by: JJR

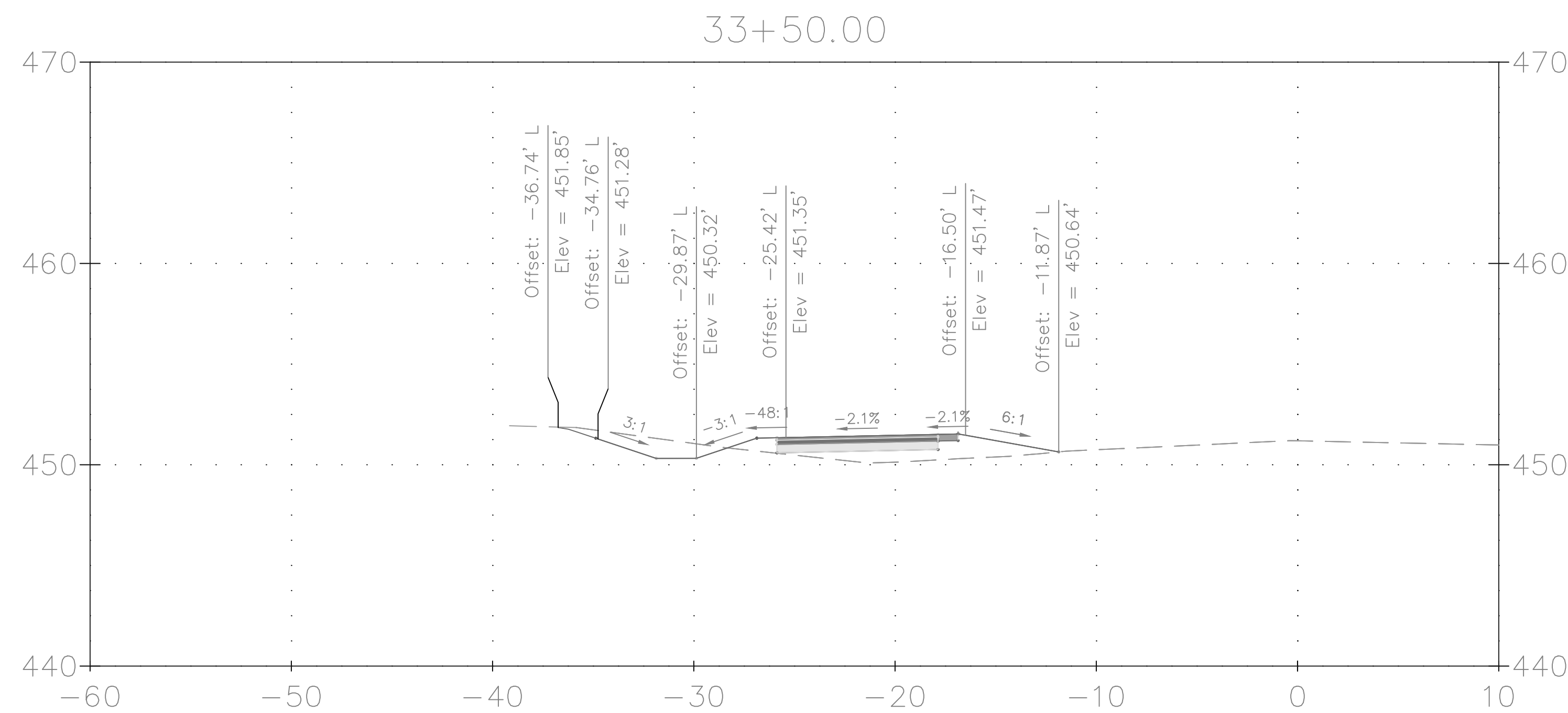
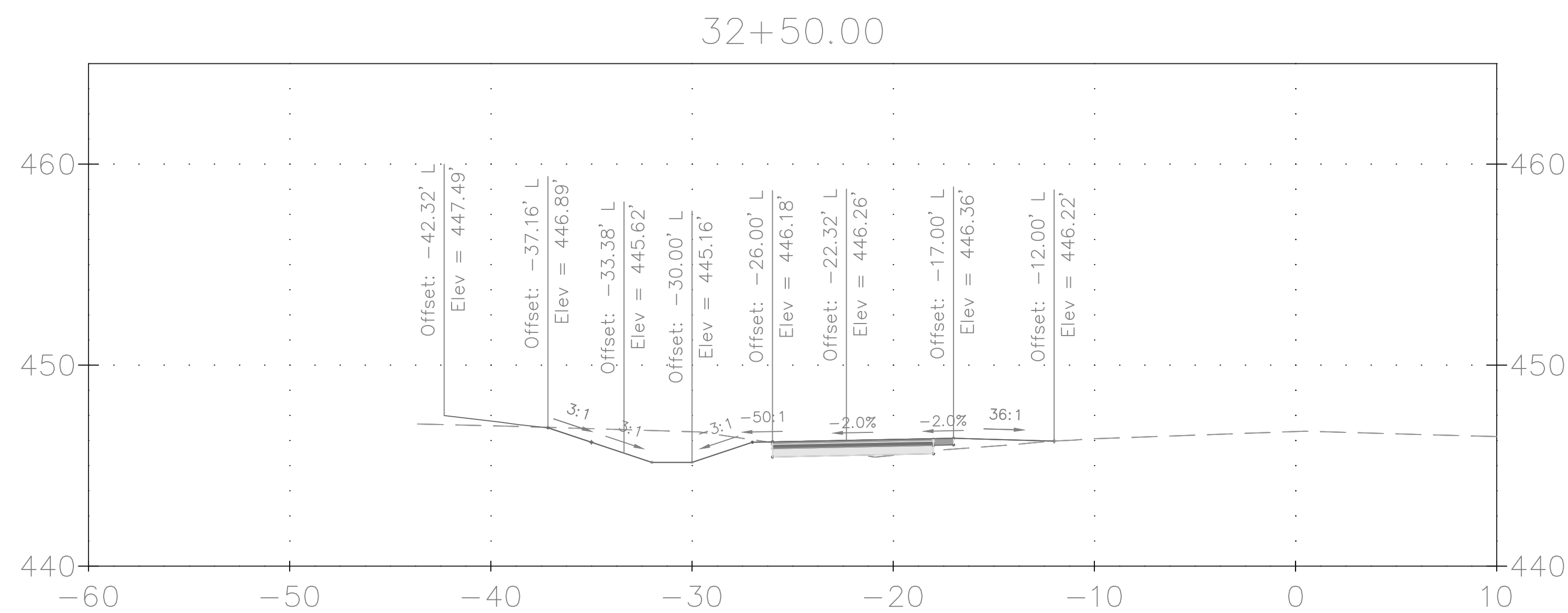
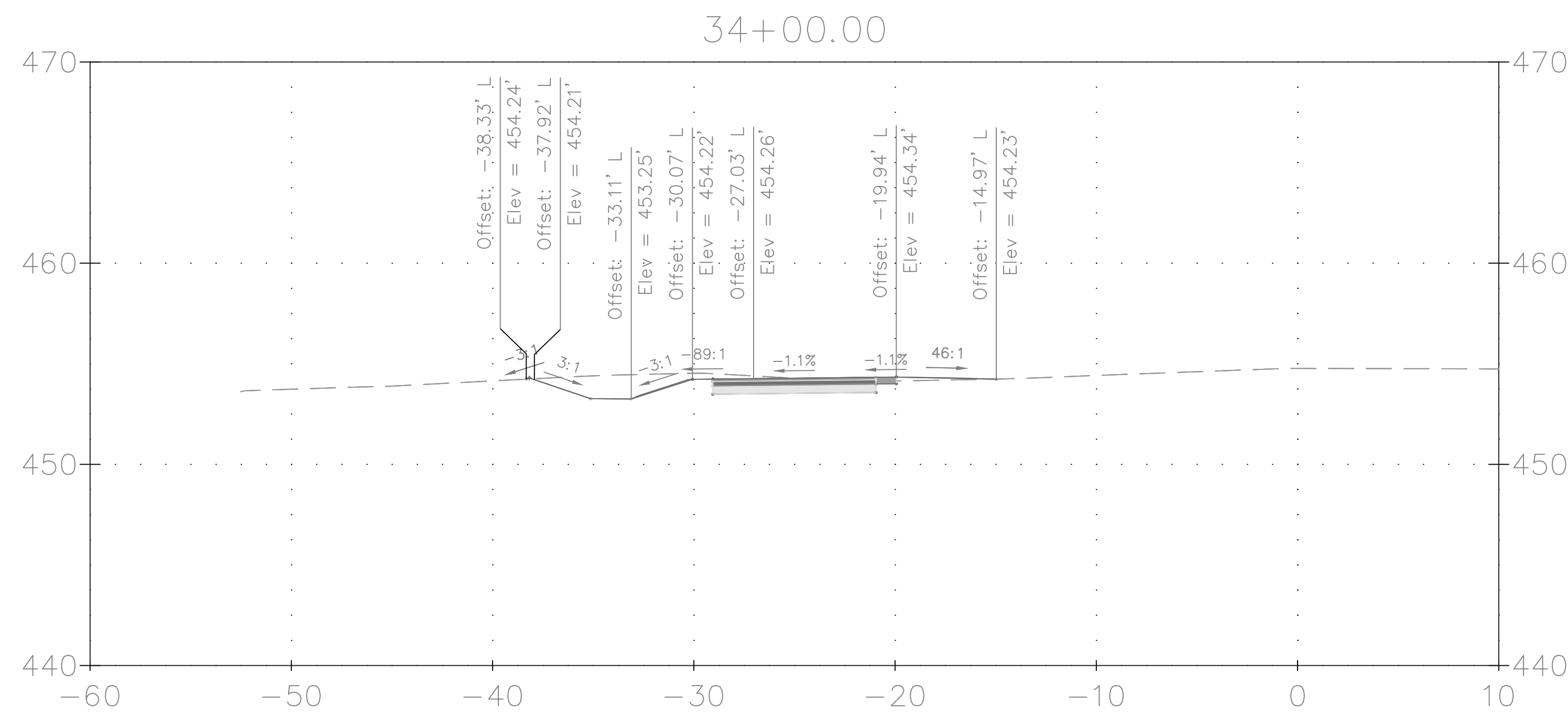
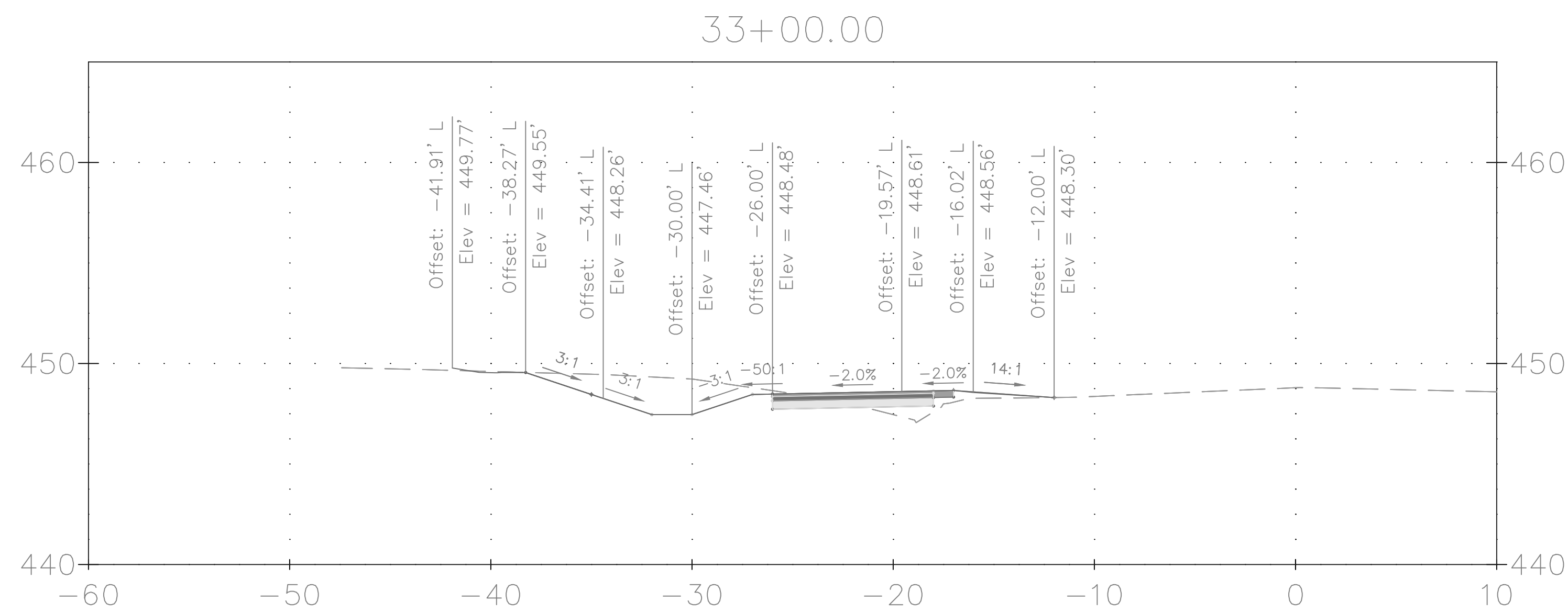
XS-16 CROSS SECTION


GOOD HOPE ROAD
SIDEWALK

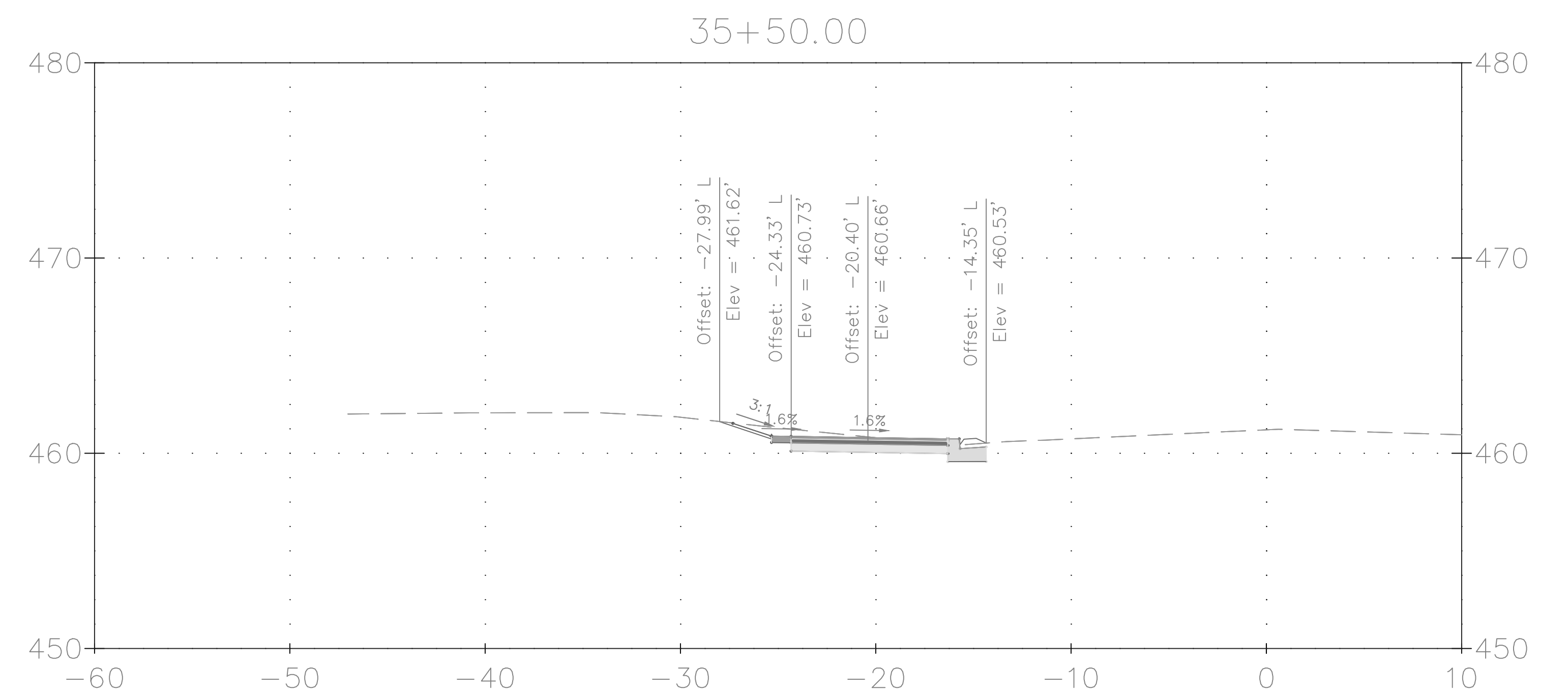
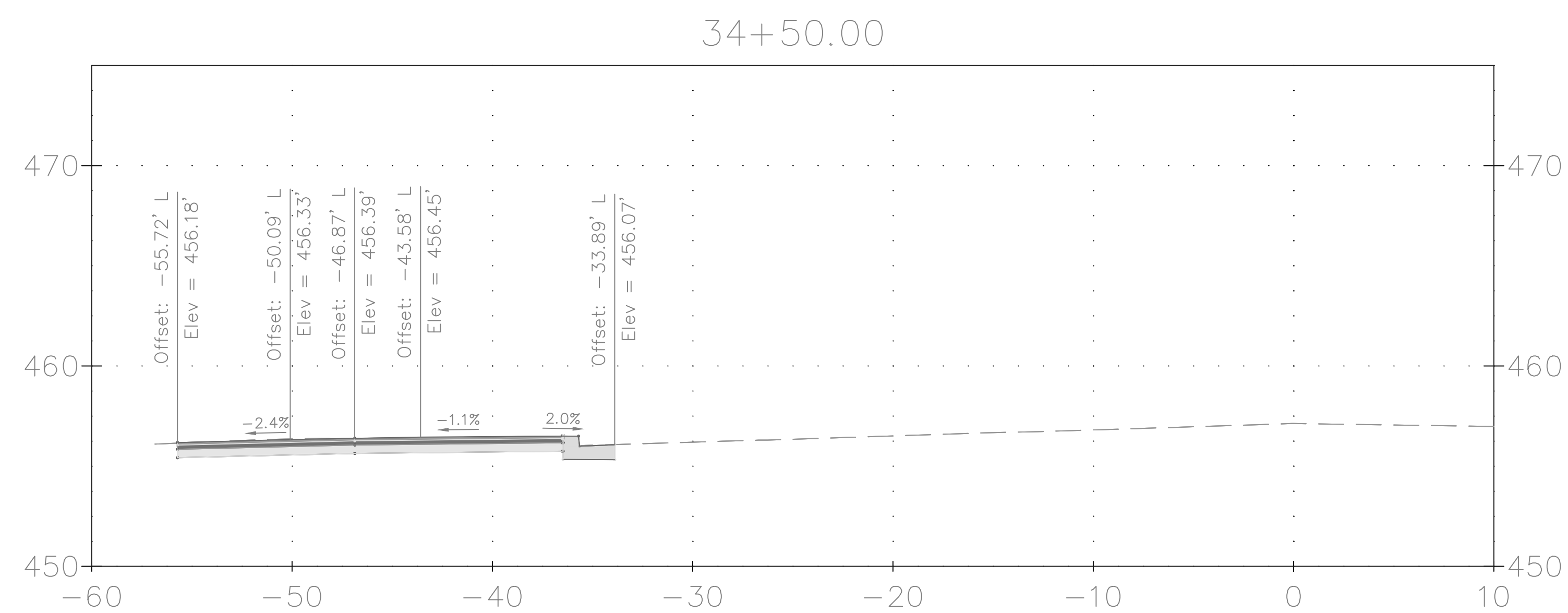
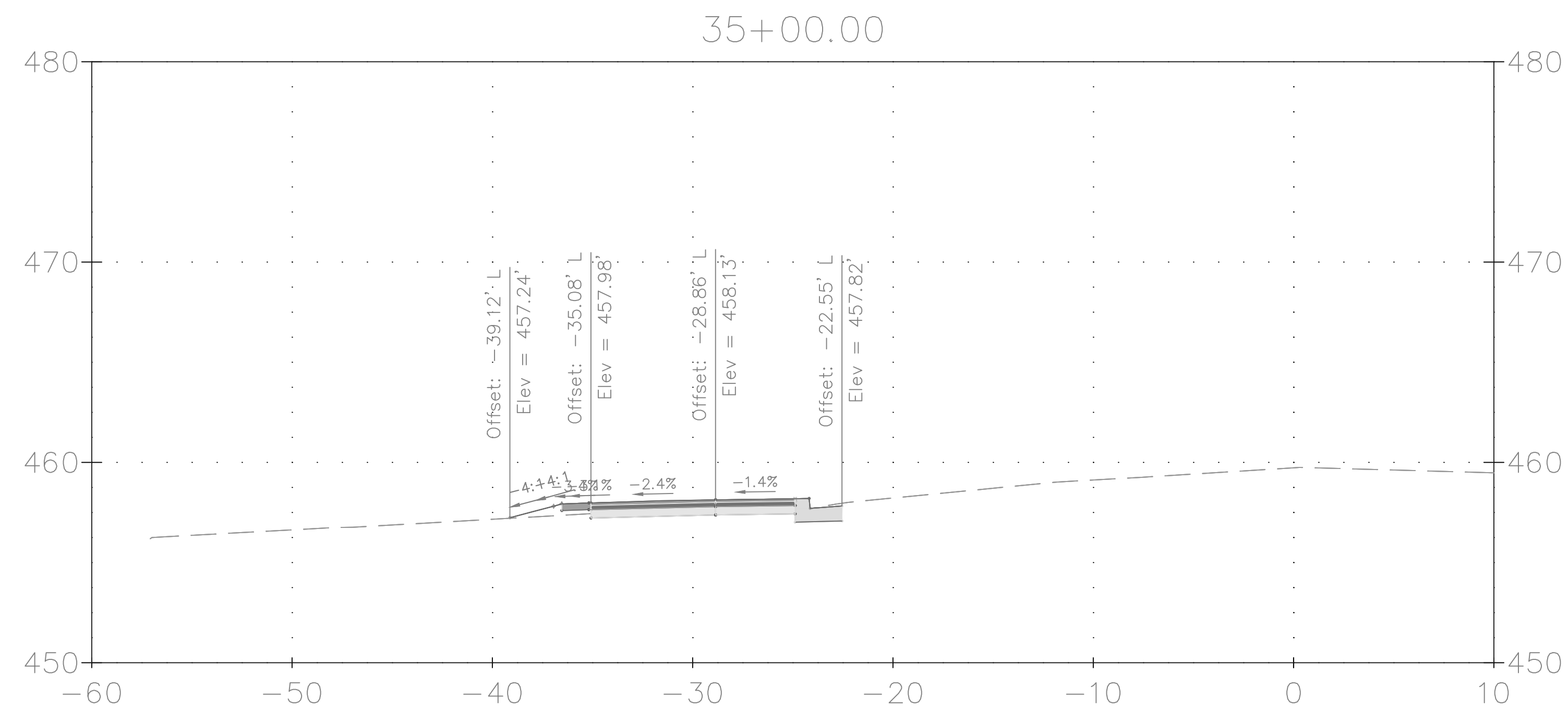


SCALE: 1"=5' DATE: NOVEMBER 2019

Project No. : 501902 SHEET 63 of 75



<p>DRAFT NOT FOR CONSTRUCTION</p> 	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th><th>BY</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE	BY																																					<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>	<p>XS-17 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p> <p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p>
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<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section APPROVED _____ Date _____</p> <p>Chief, Division of Transportation Engineering APPROVED _____ Date _____</p> <p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>		<p>Project No. : <u>501902</u> SHEET <u>64</u> of <u>75</u></p>																																									



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NOT FOR CONSTRUCTION



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

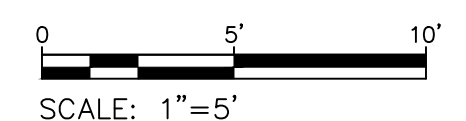
Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering Date

Designed by: ADS Drawn by: ADS Checked by: JJR

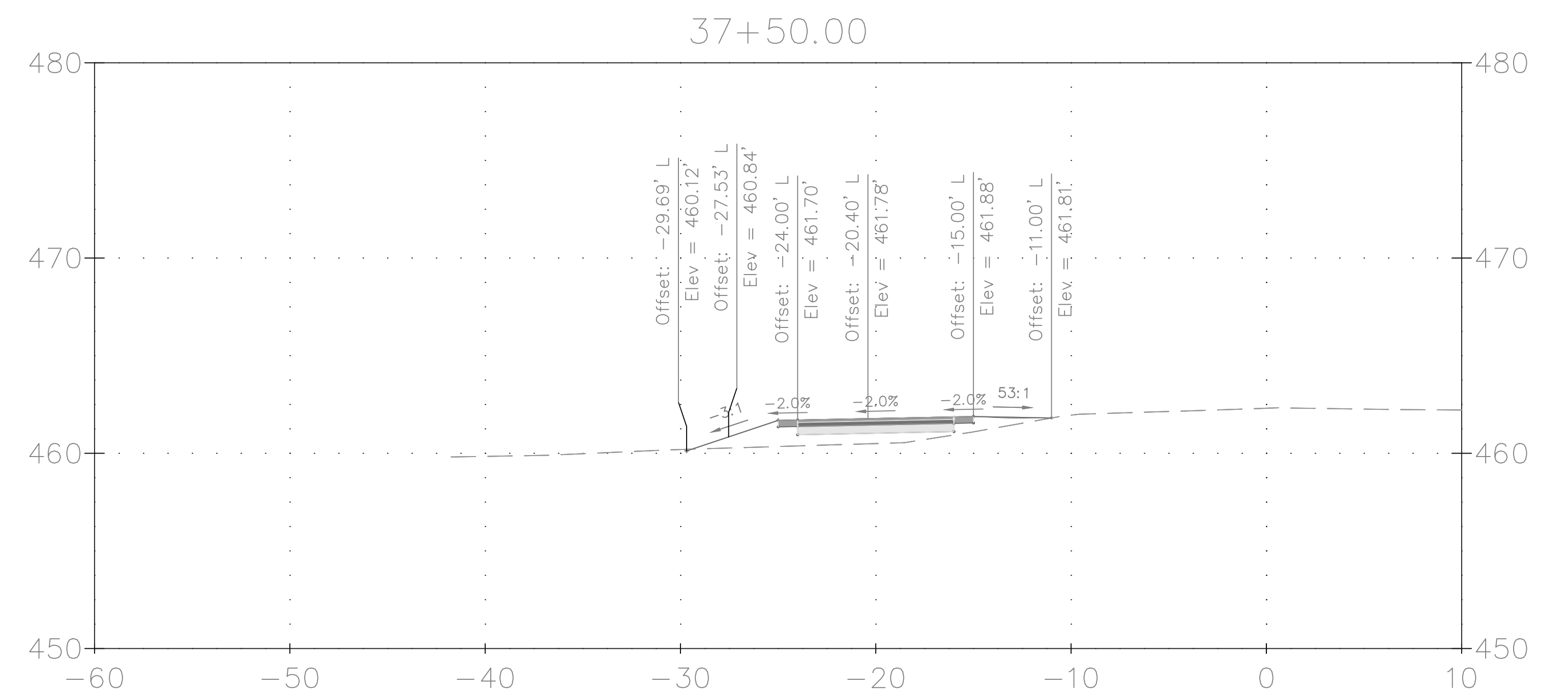
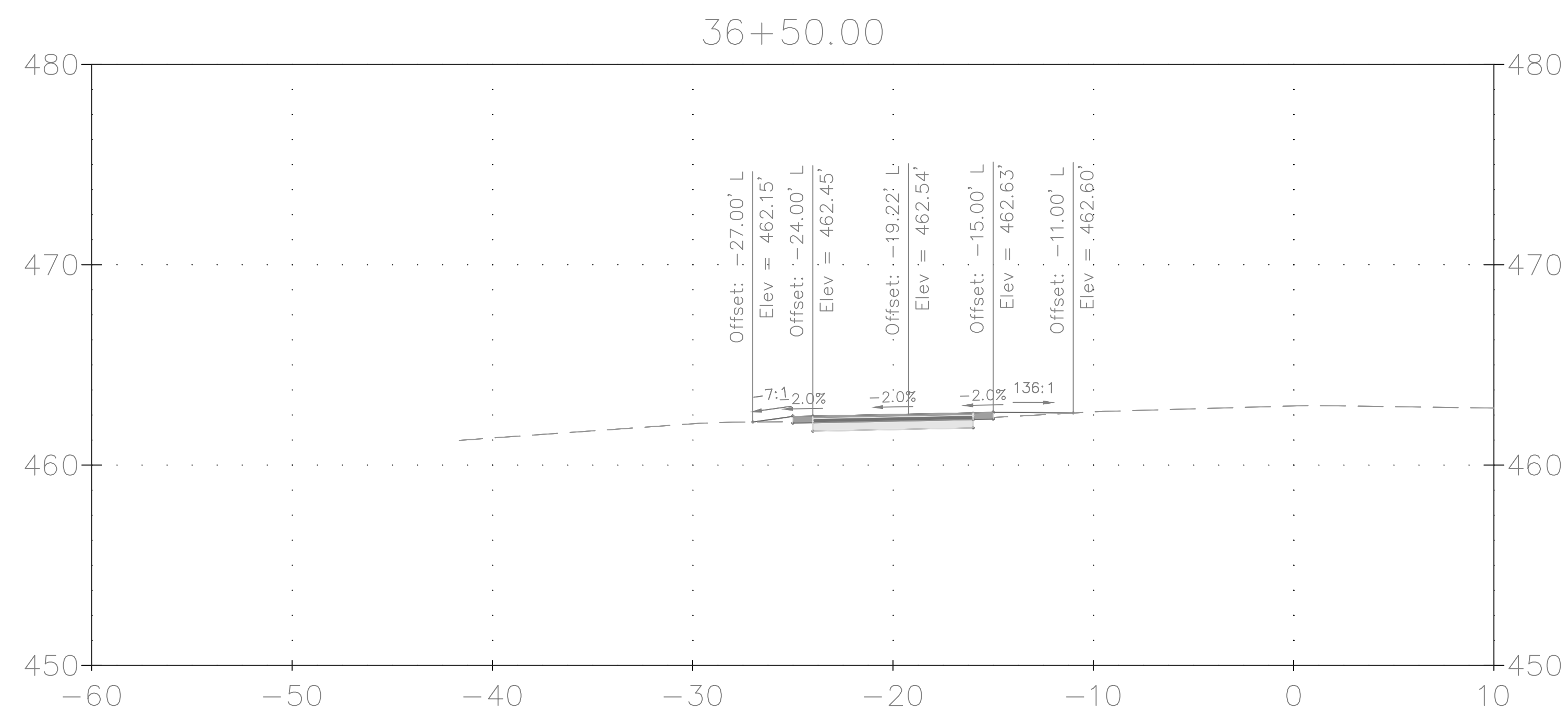
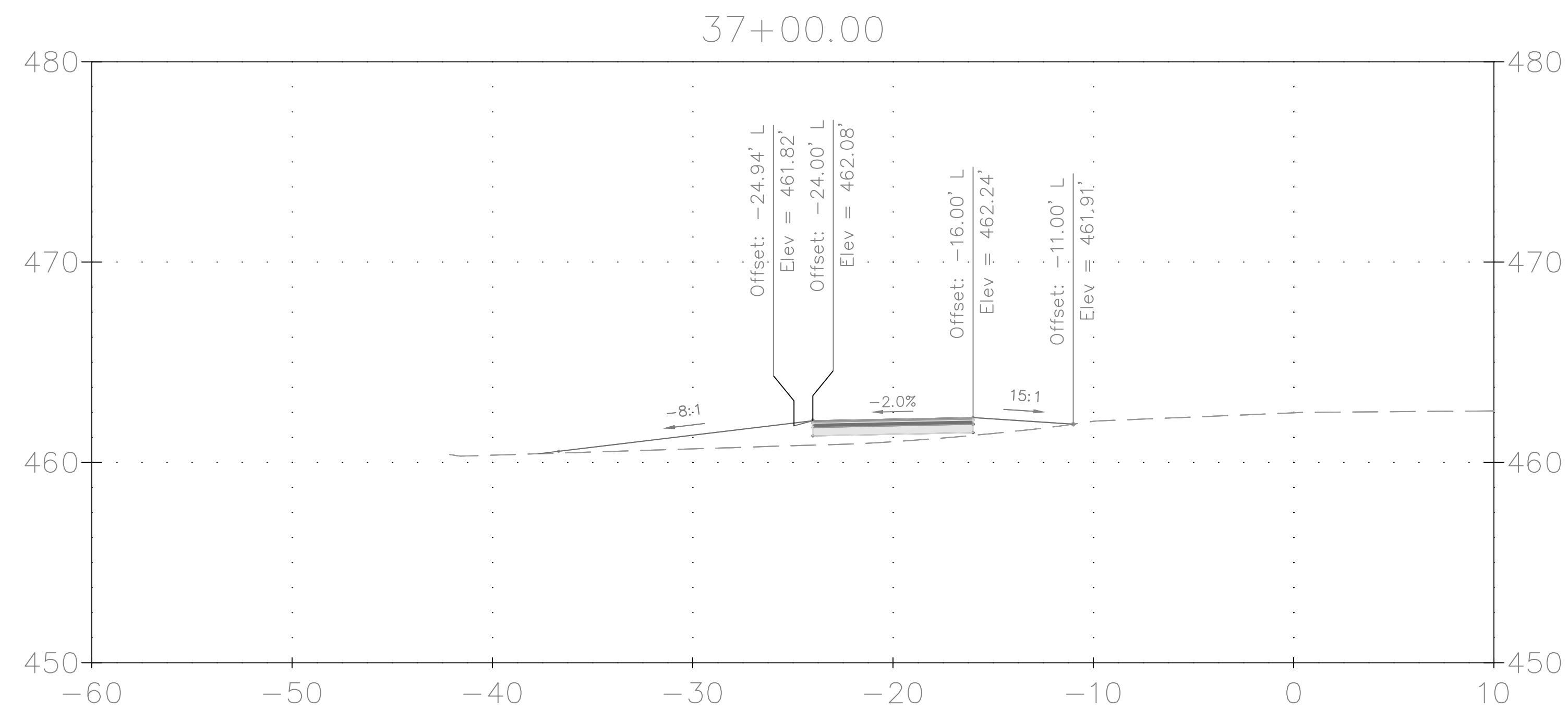
XS-18 CROSS SECTION

GOOD HOPE ROAD
SIDEWALK



DATE: NOVEMBER 2019

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	

Chief, Division of Transportation Engineering _____ Date _____

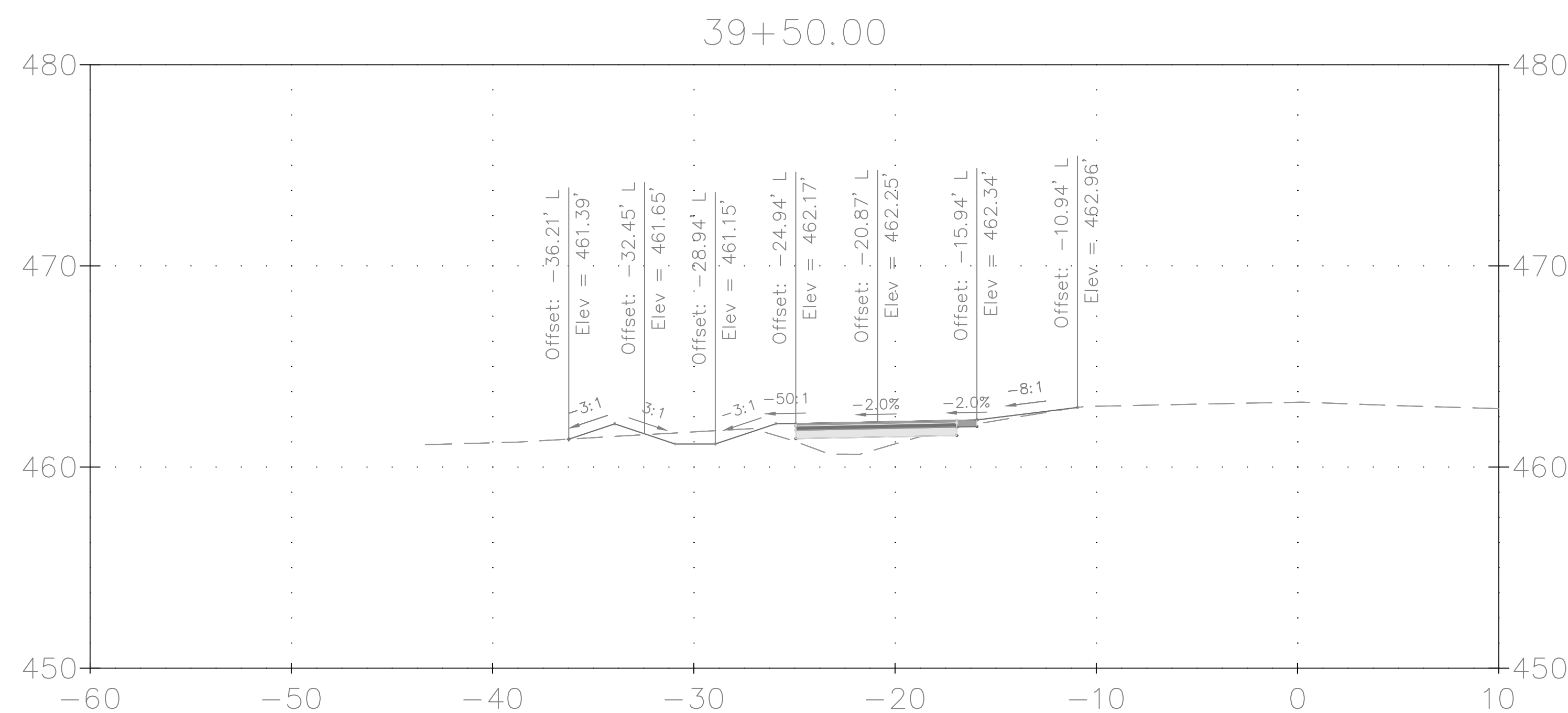
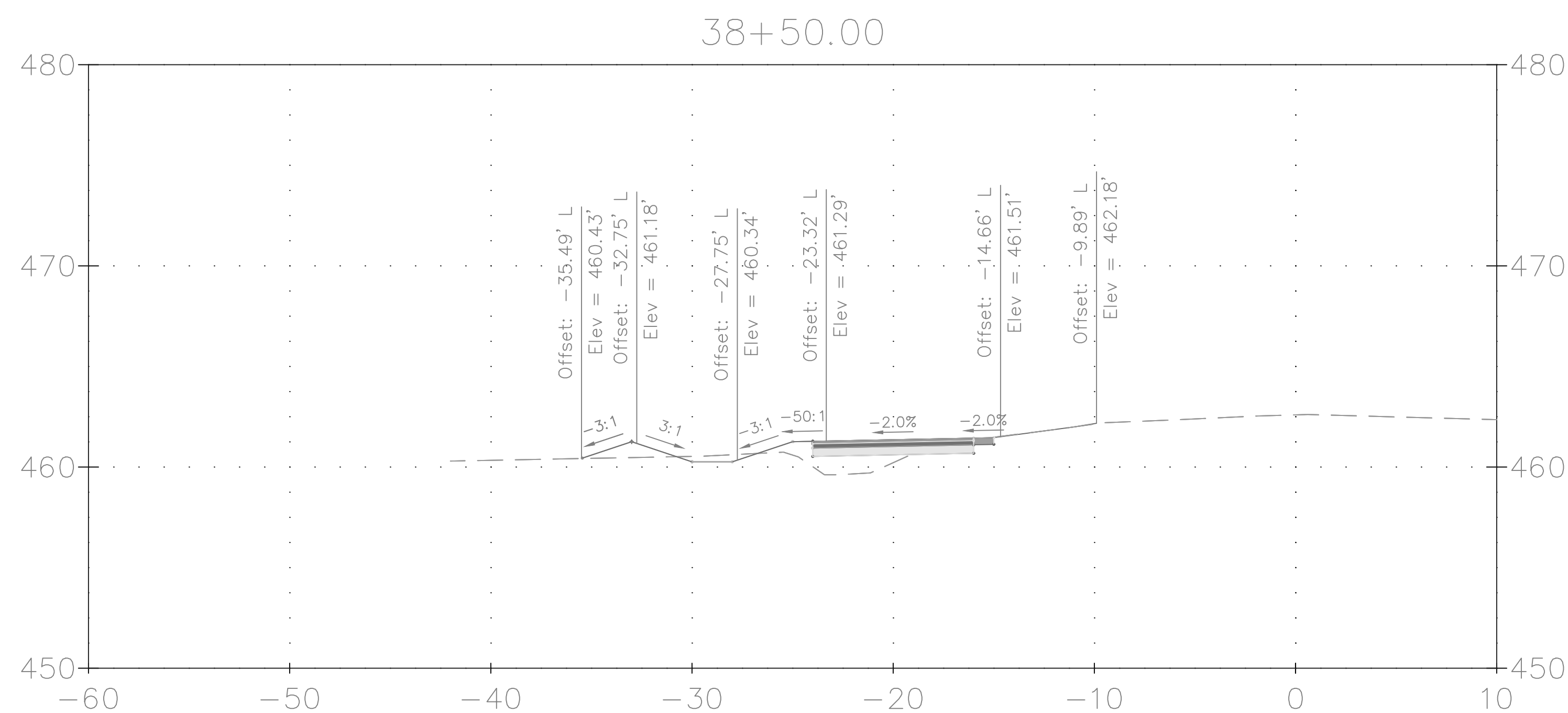
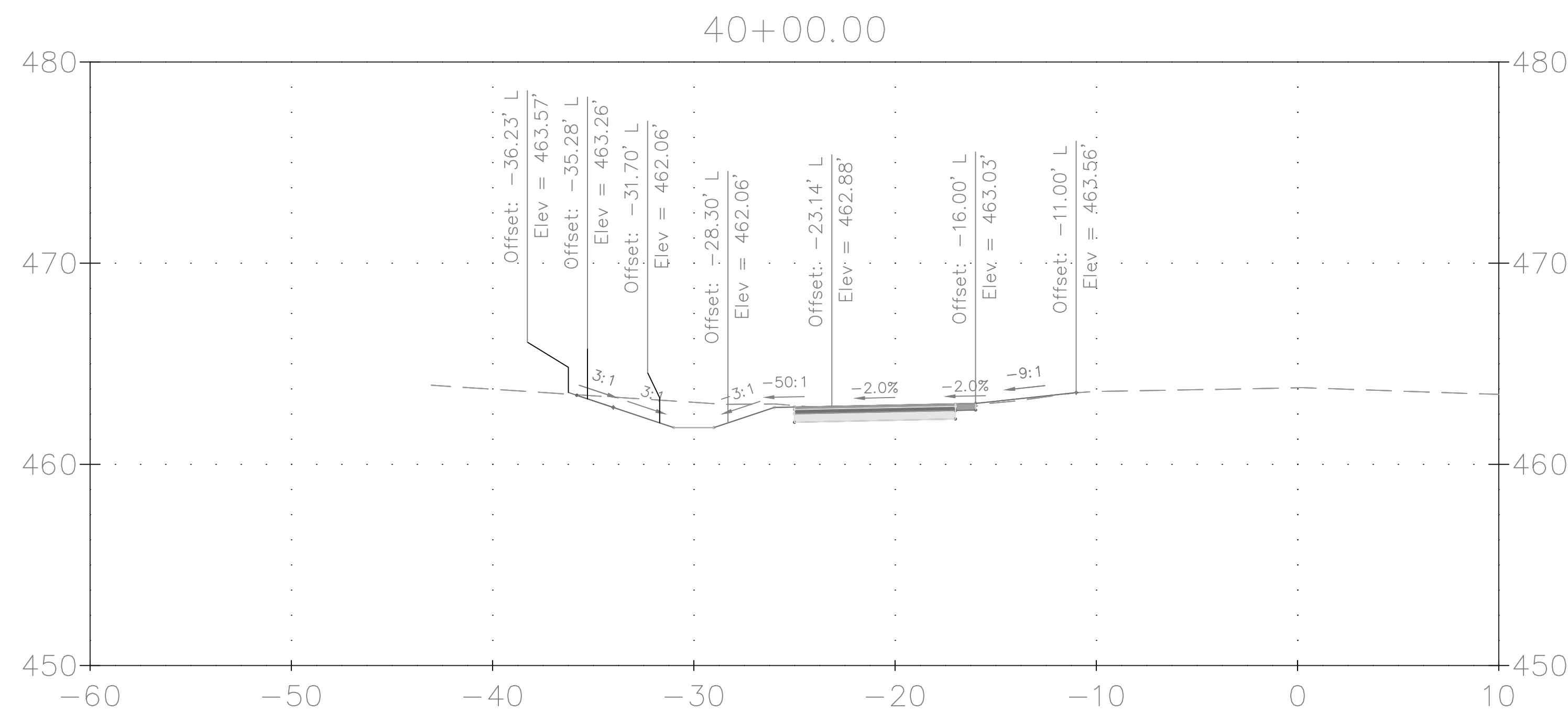
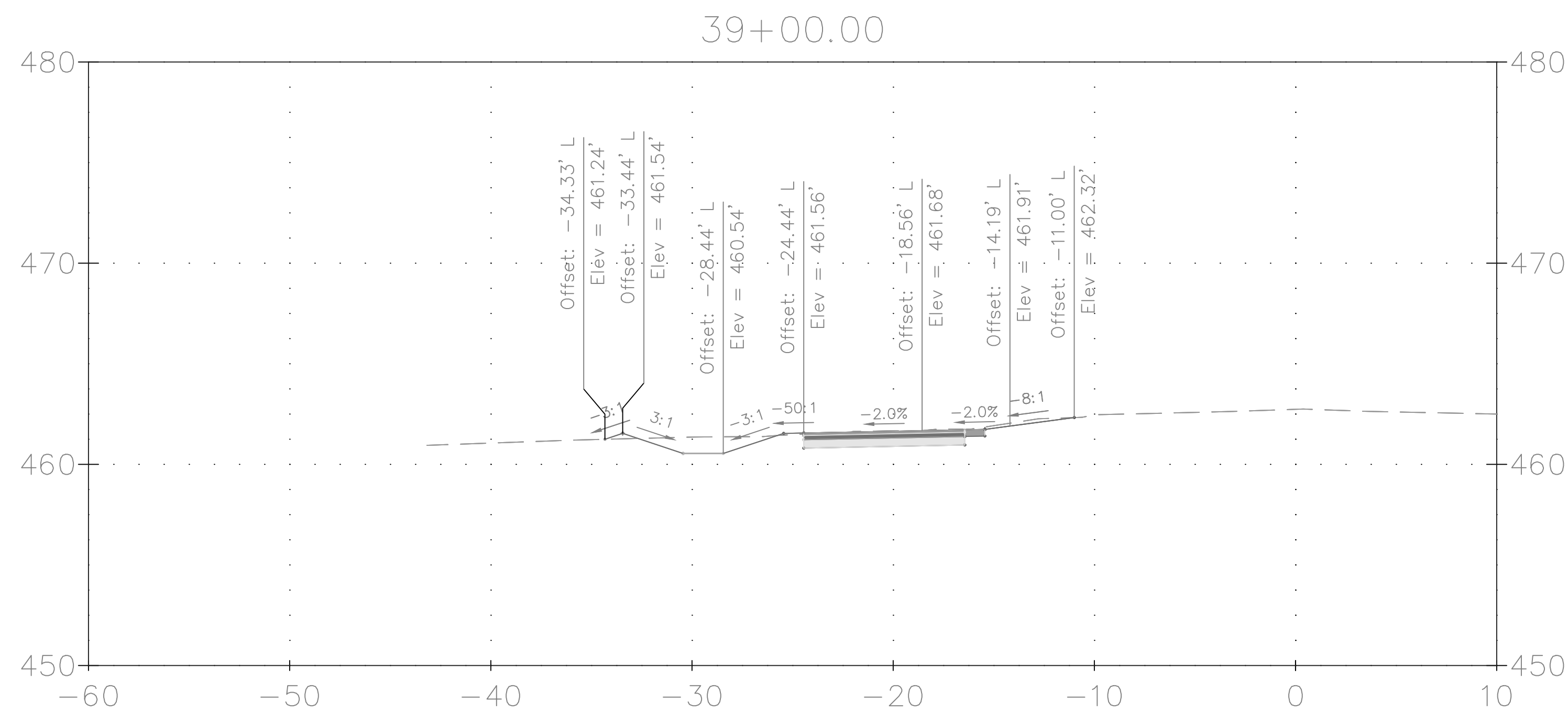
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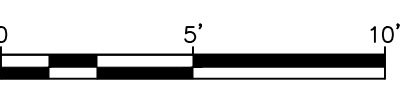
XS-19 CROSS SECTION

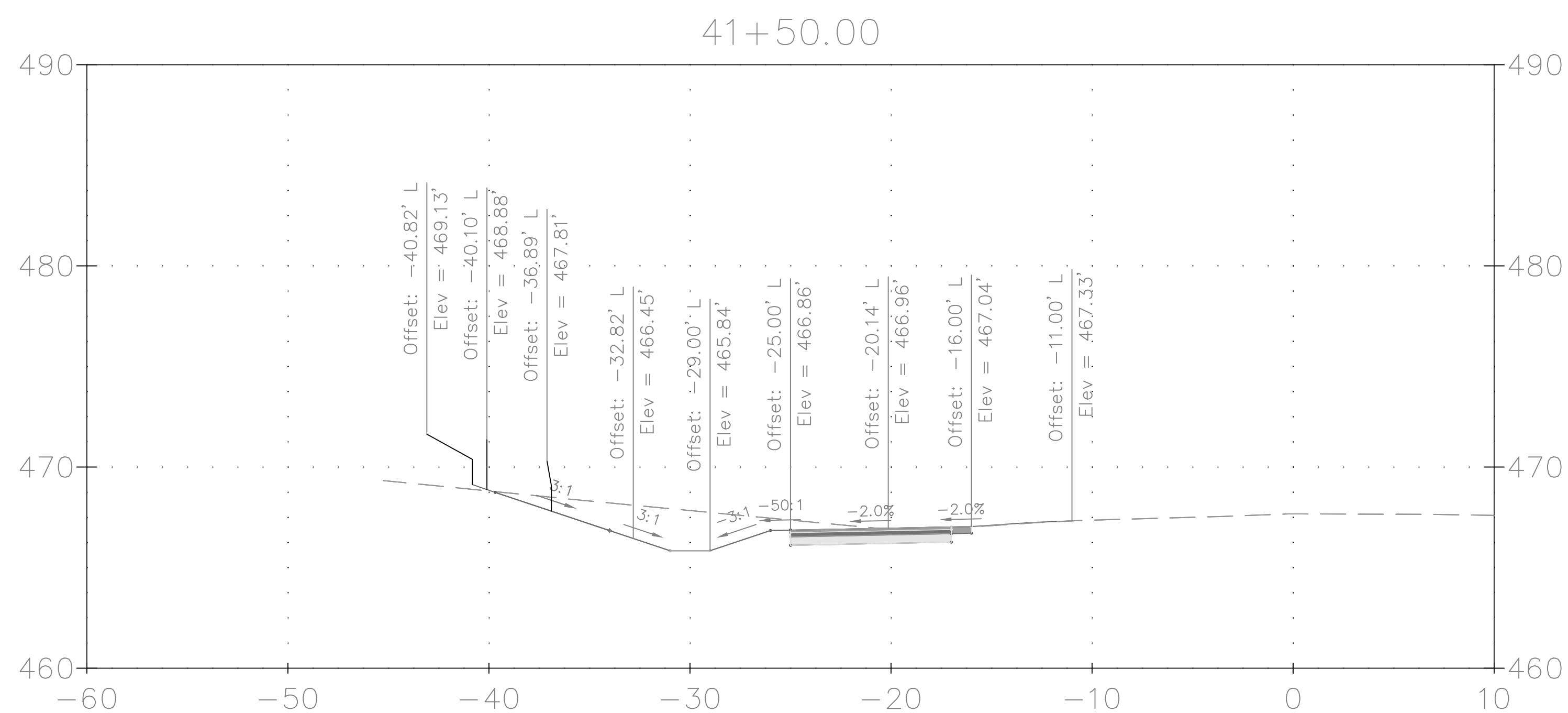
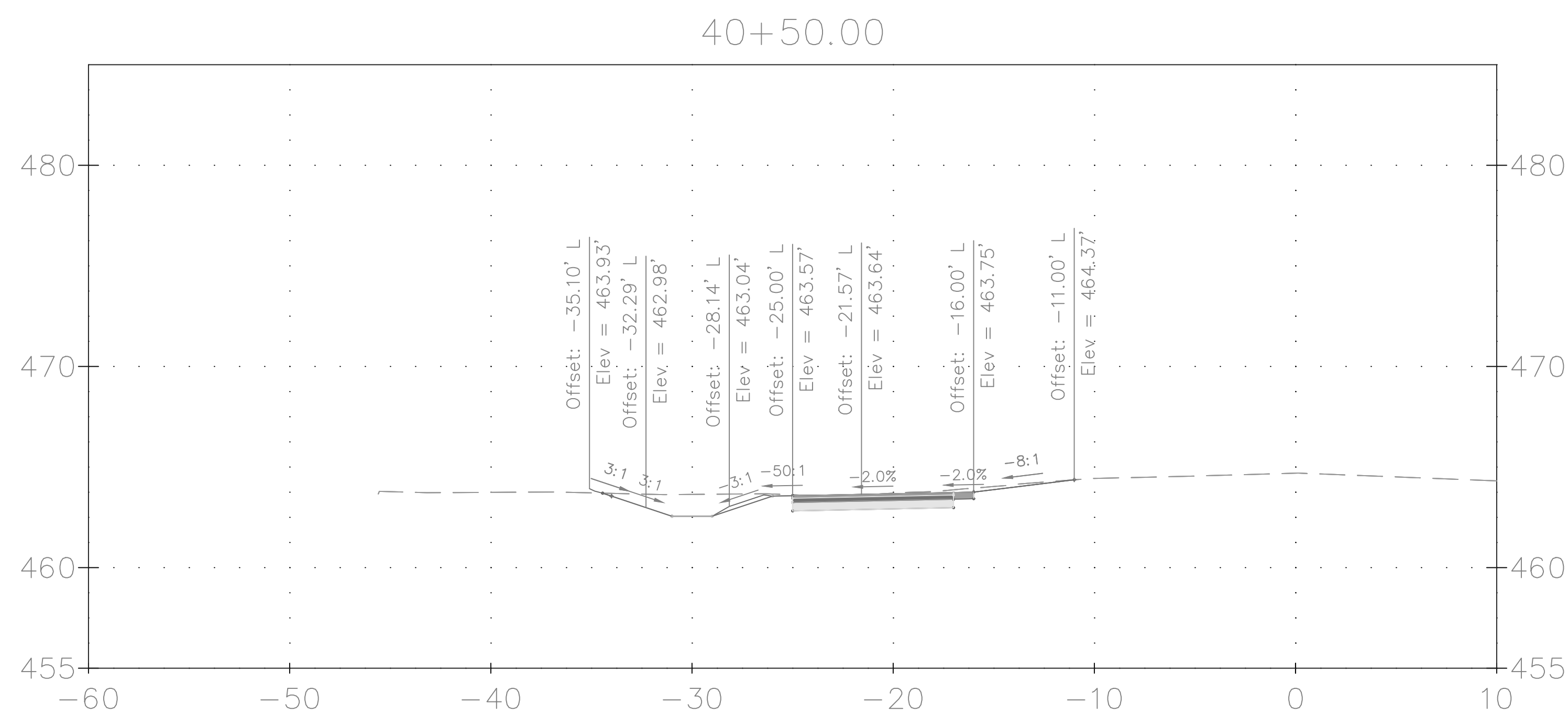
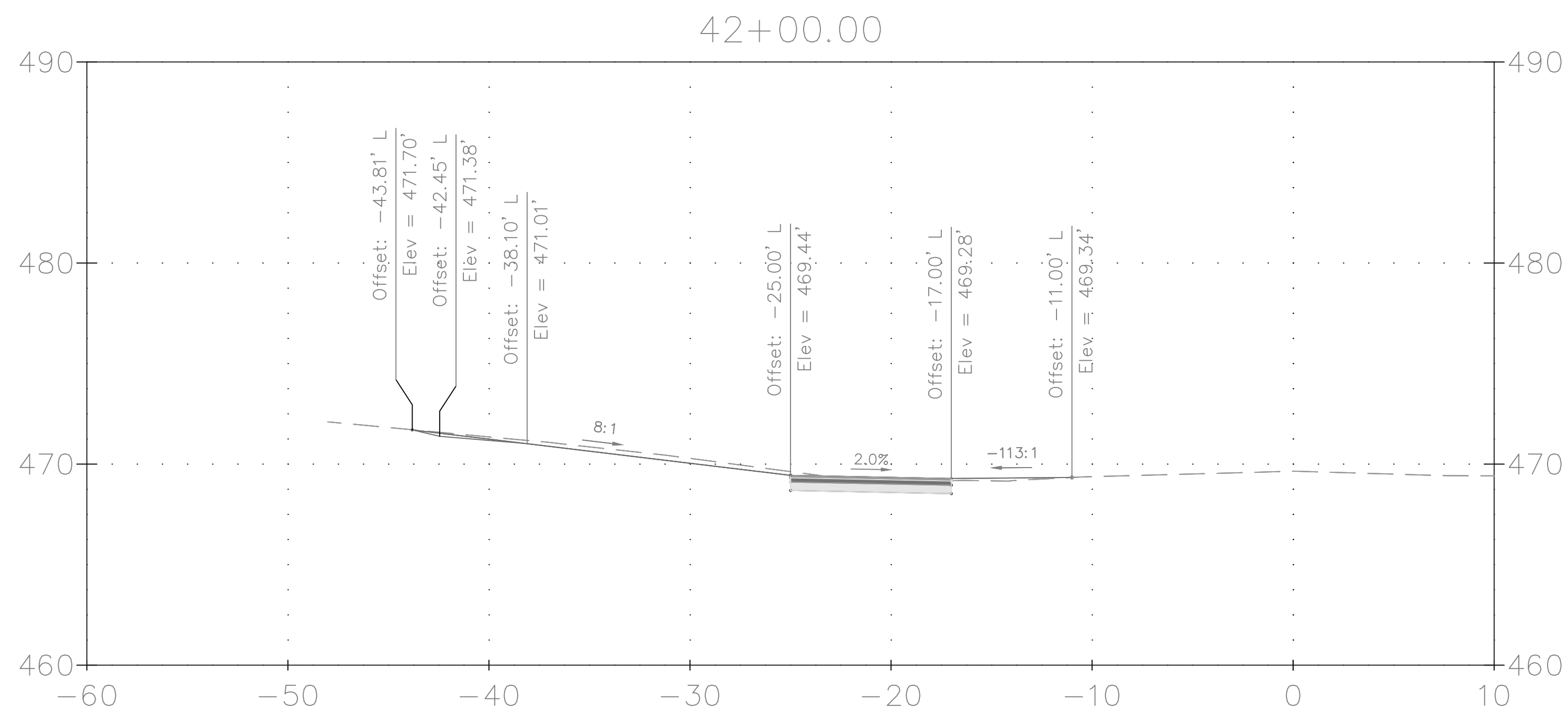
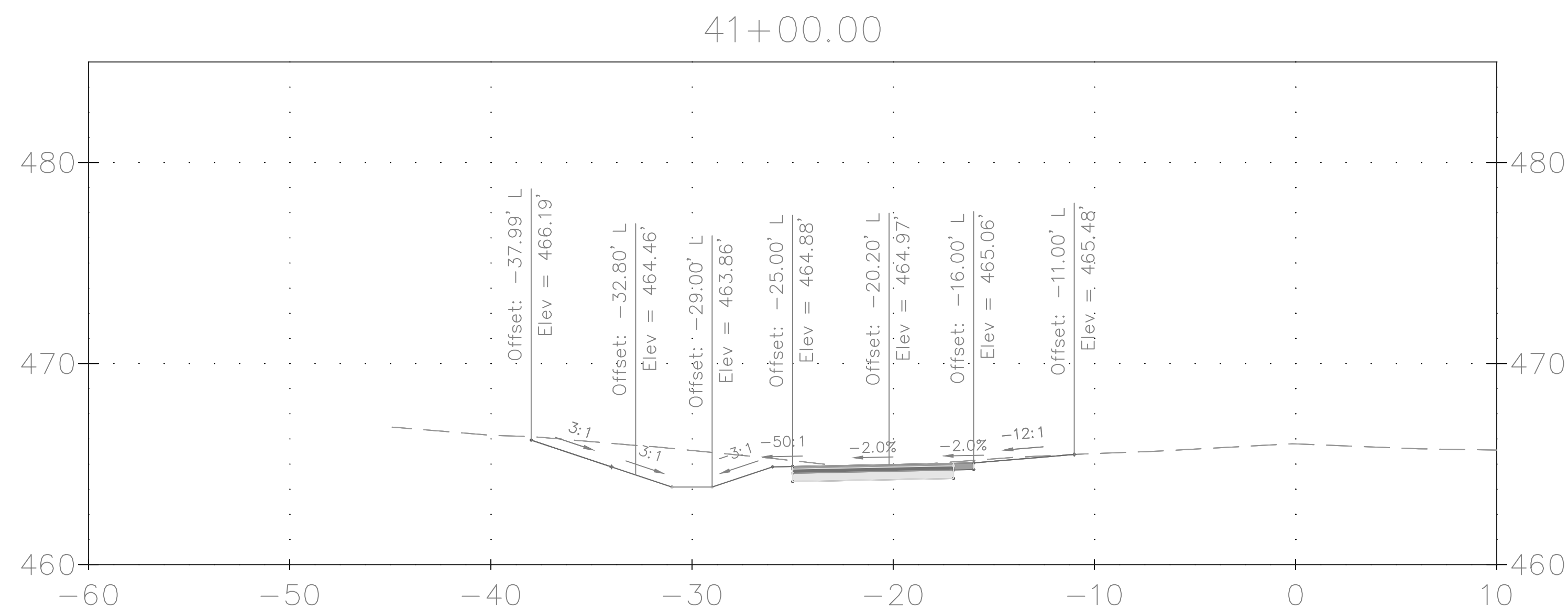
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SIDEWALK

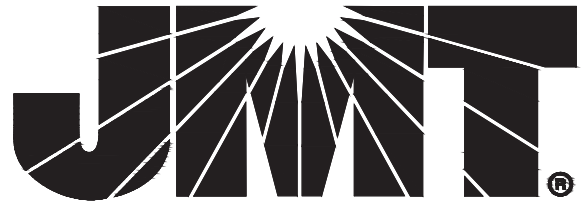
DATE: NOVEMBER 2019

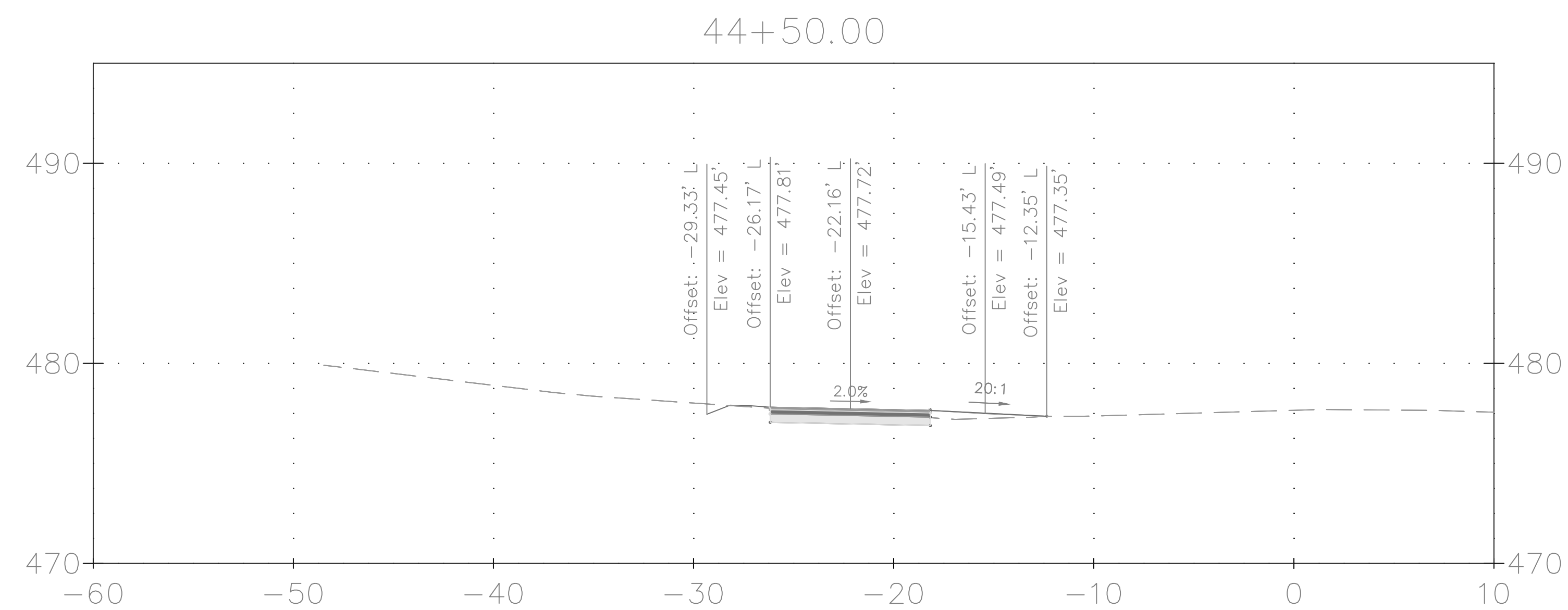
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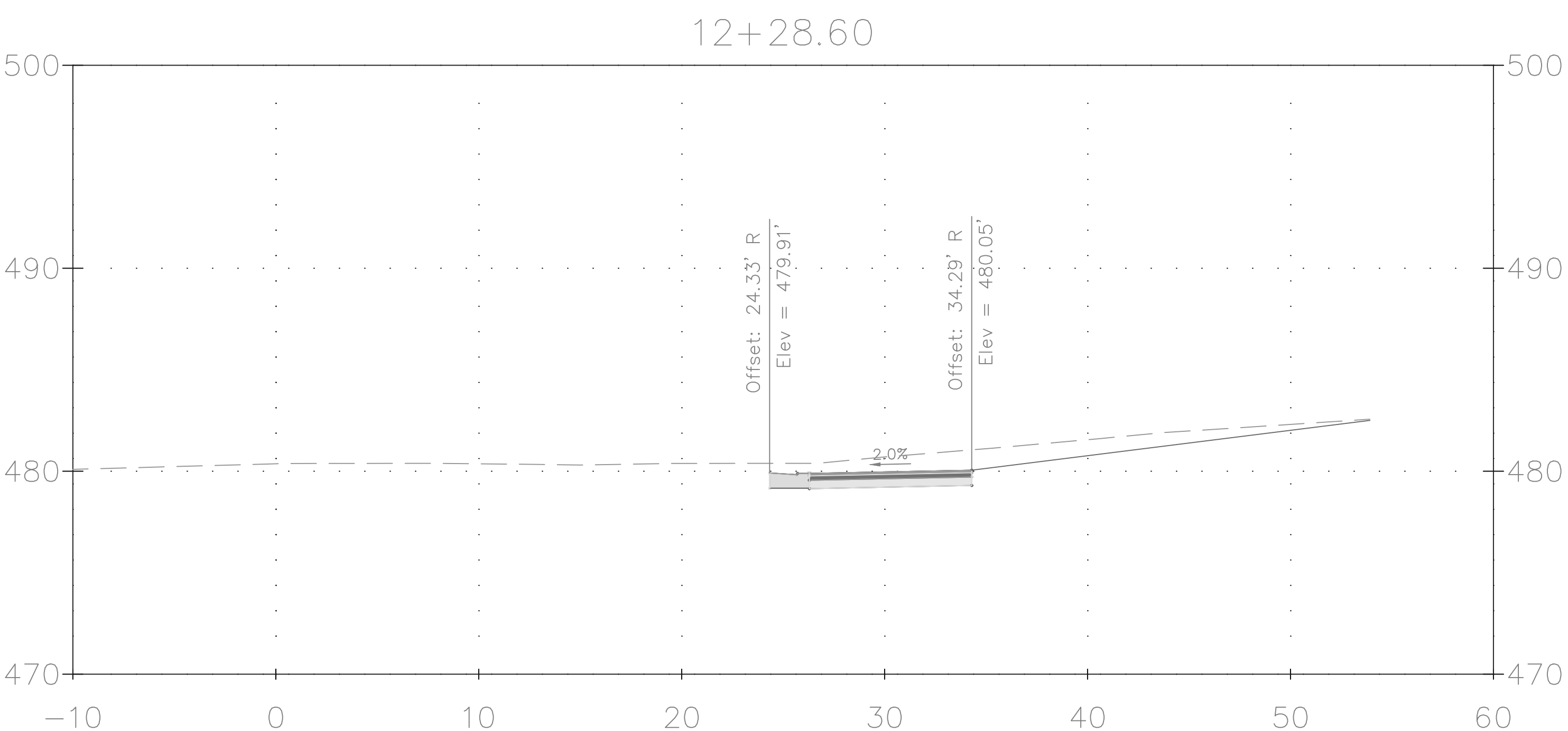
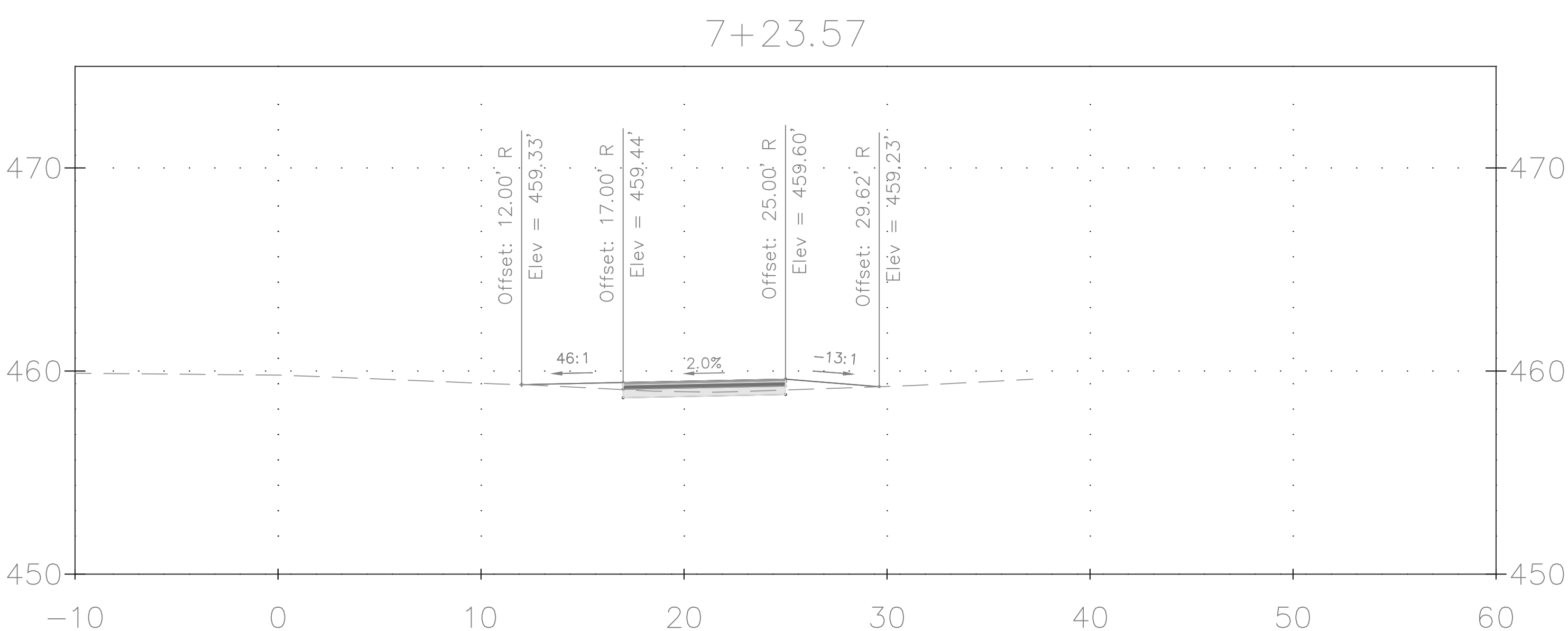
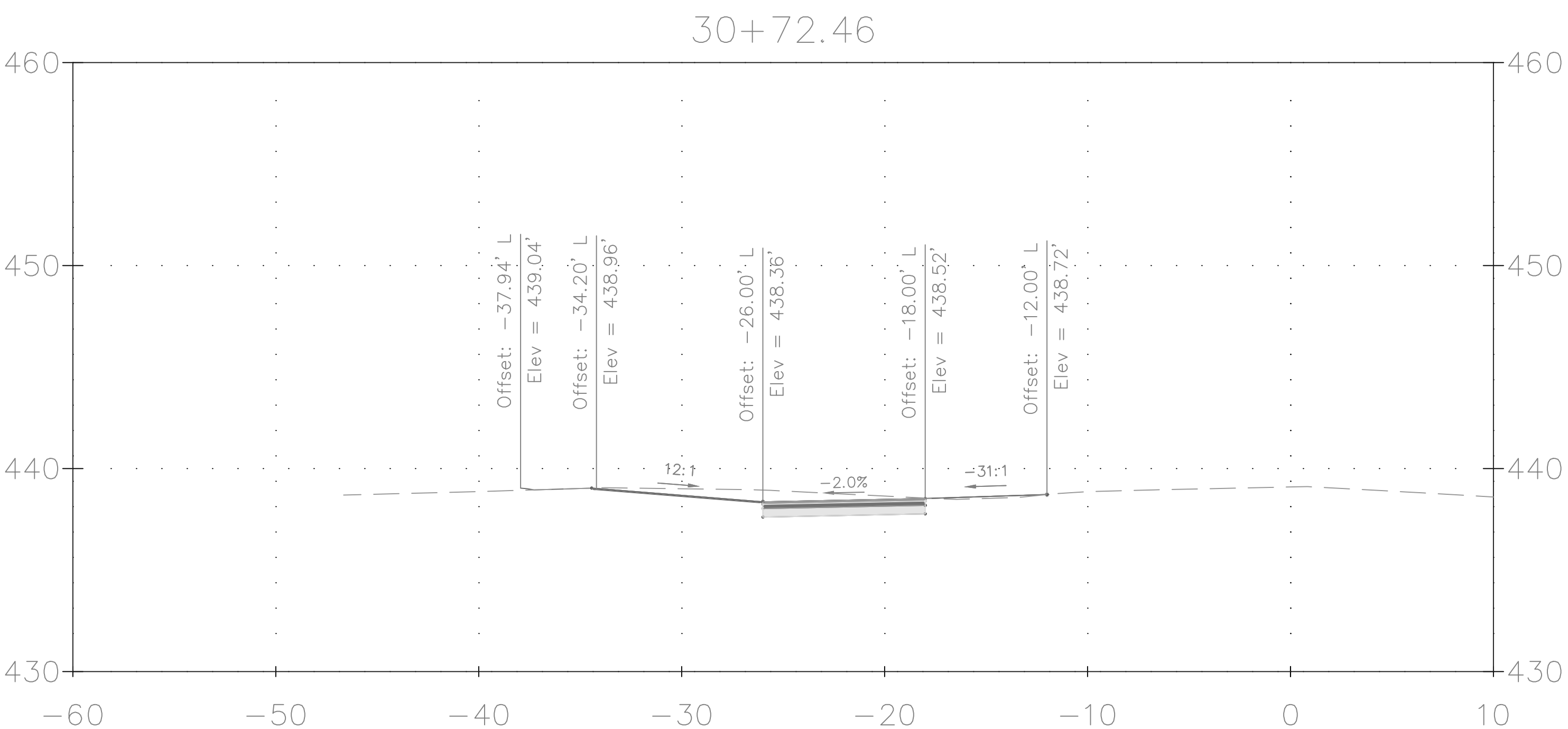
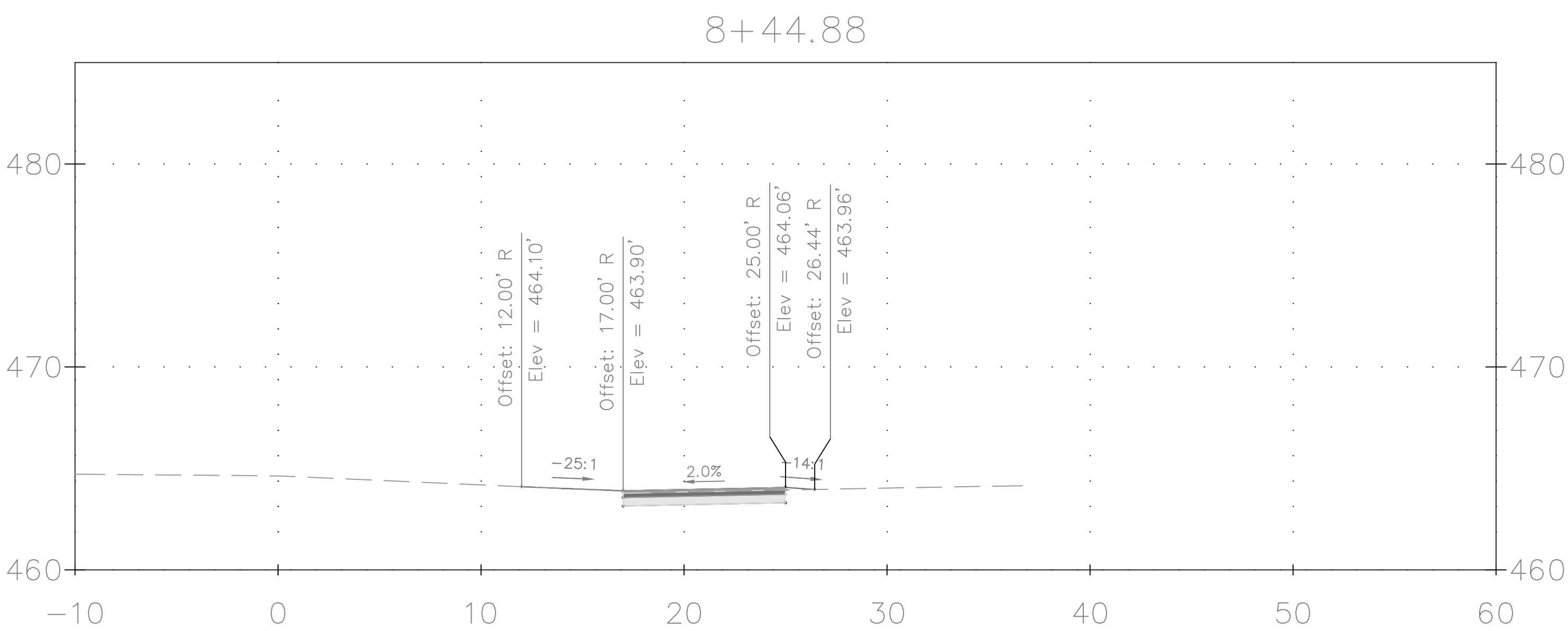
<p>DRAFT NOT FOR CONSTRUCTION</p> 	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th><th>BY</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE	BY																																					<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>	<p>XS-20 CROSS SECTION</p> <p>GOOD HOPE ROAD SIDEWALK</p>  <p>SCALE: 1"=5'</p> <p>DATE: NOVEMBER 2019</p>
		NO.	REVISION	DATE	BY																																						
<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section APPROVED _____ Date _____</p> <p>Chief, Division of Transportation Engineering _____ Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>																																											




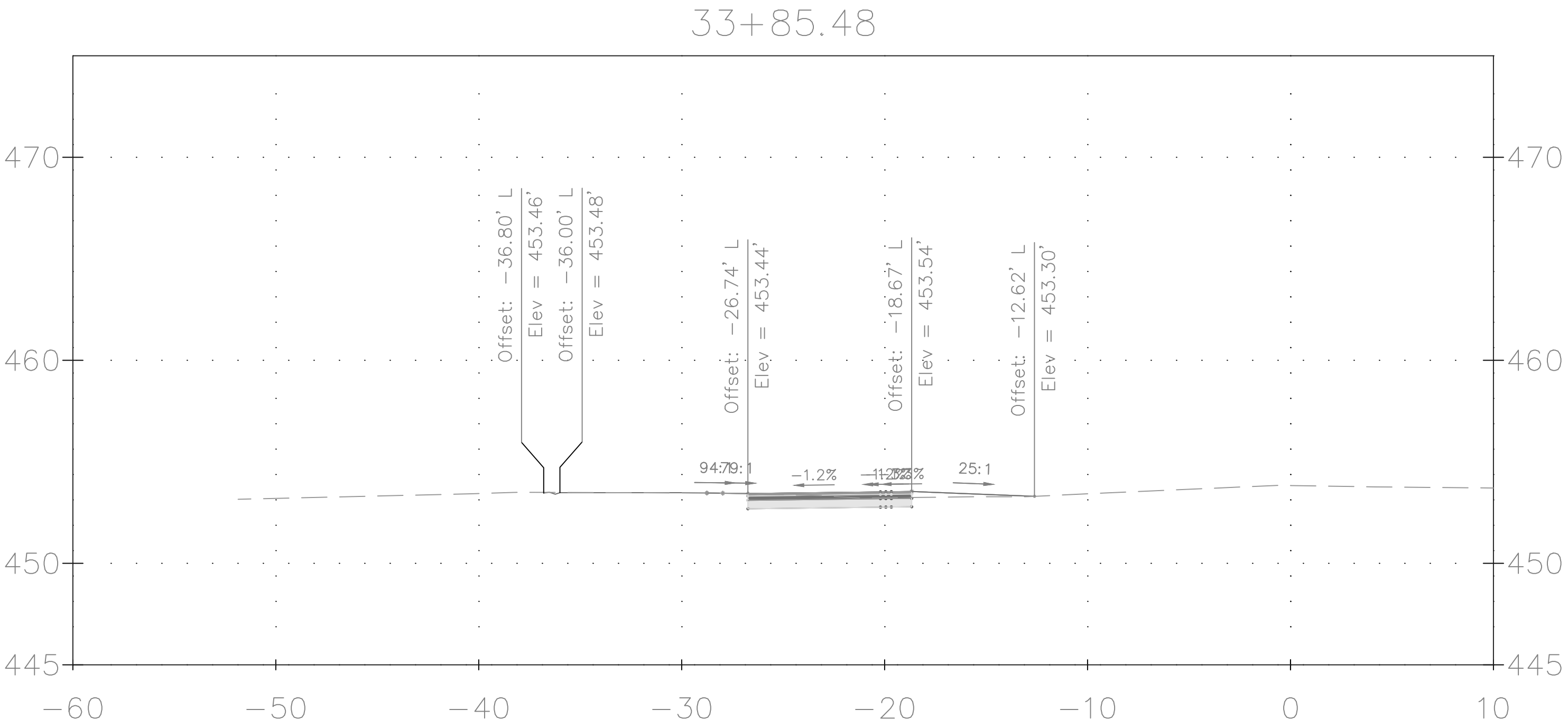
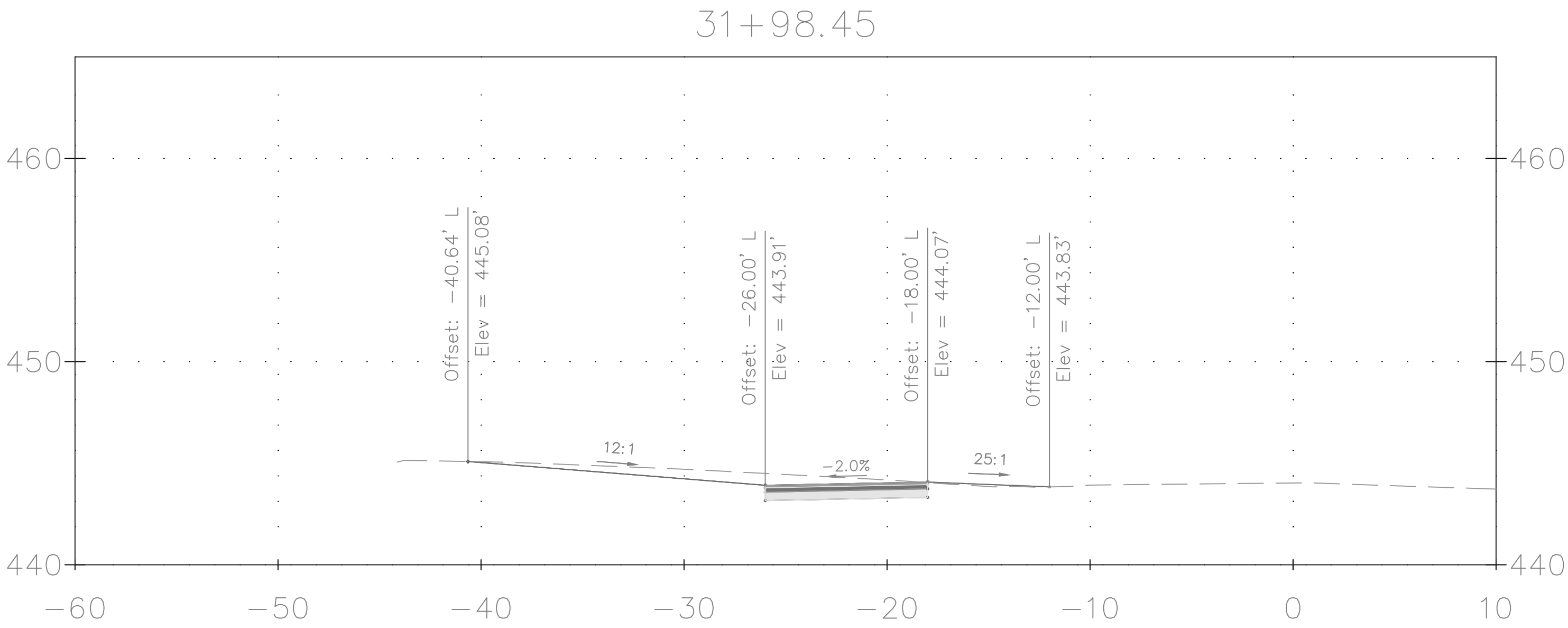
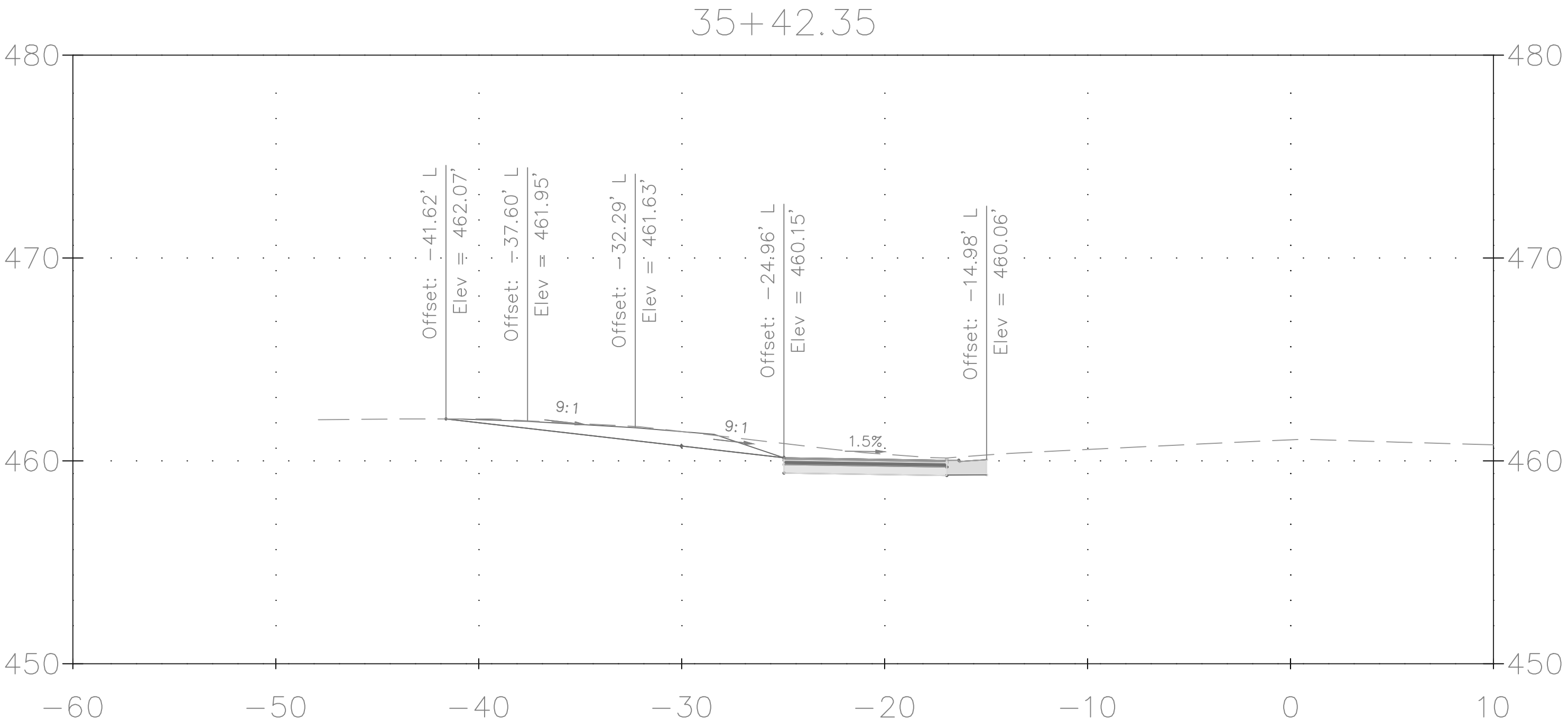
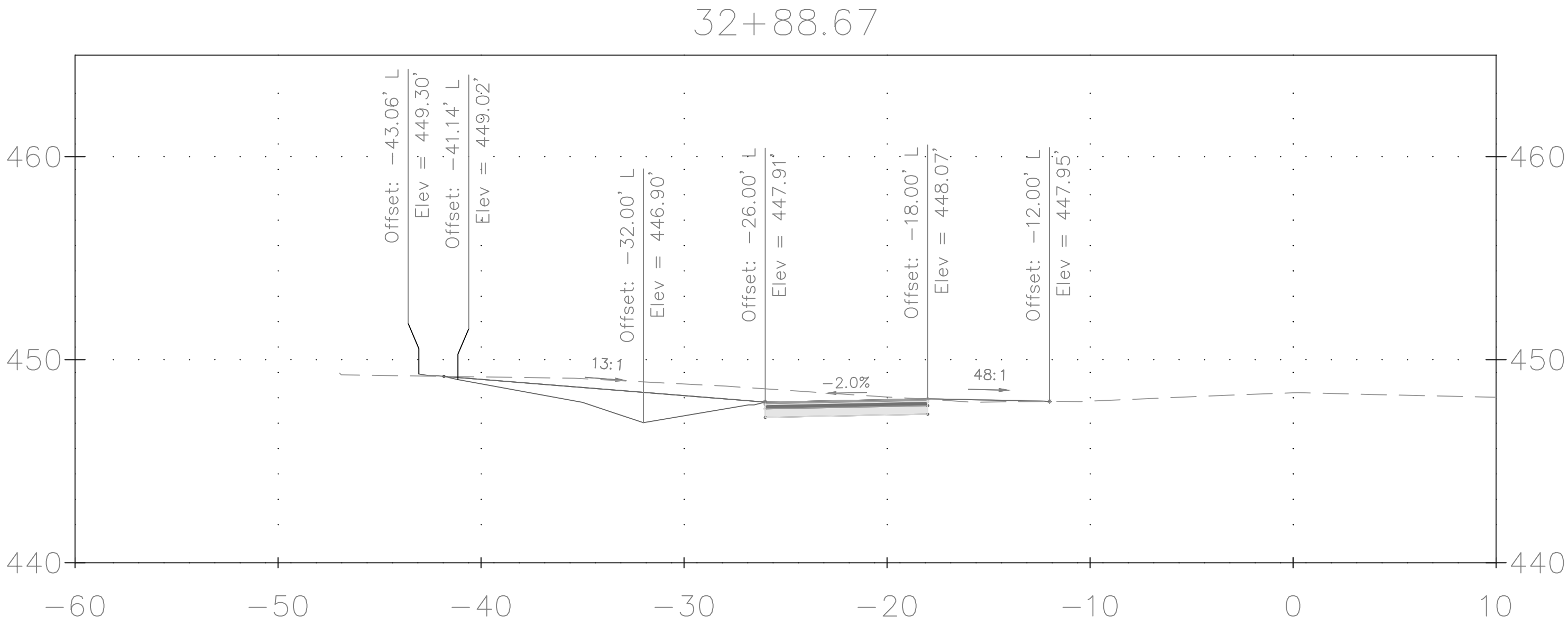
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					RECOMMENDED FOR APPROVAL		
				Chief, Design Section APPROVED		Date	<div>0 5' 10'</div> <div>SCALE: 1"=5'</div> <div>DATE: NOVEMBER 2019</div>
				Chief, Division of Transportation Engineering		Date	
				Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u>		Project No. : <u>501902</u> SHEET <u>68</u> of <u>75</u>	
				NO.			
				REVISION			
				DATE			
				BY			


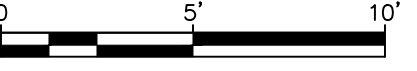


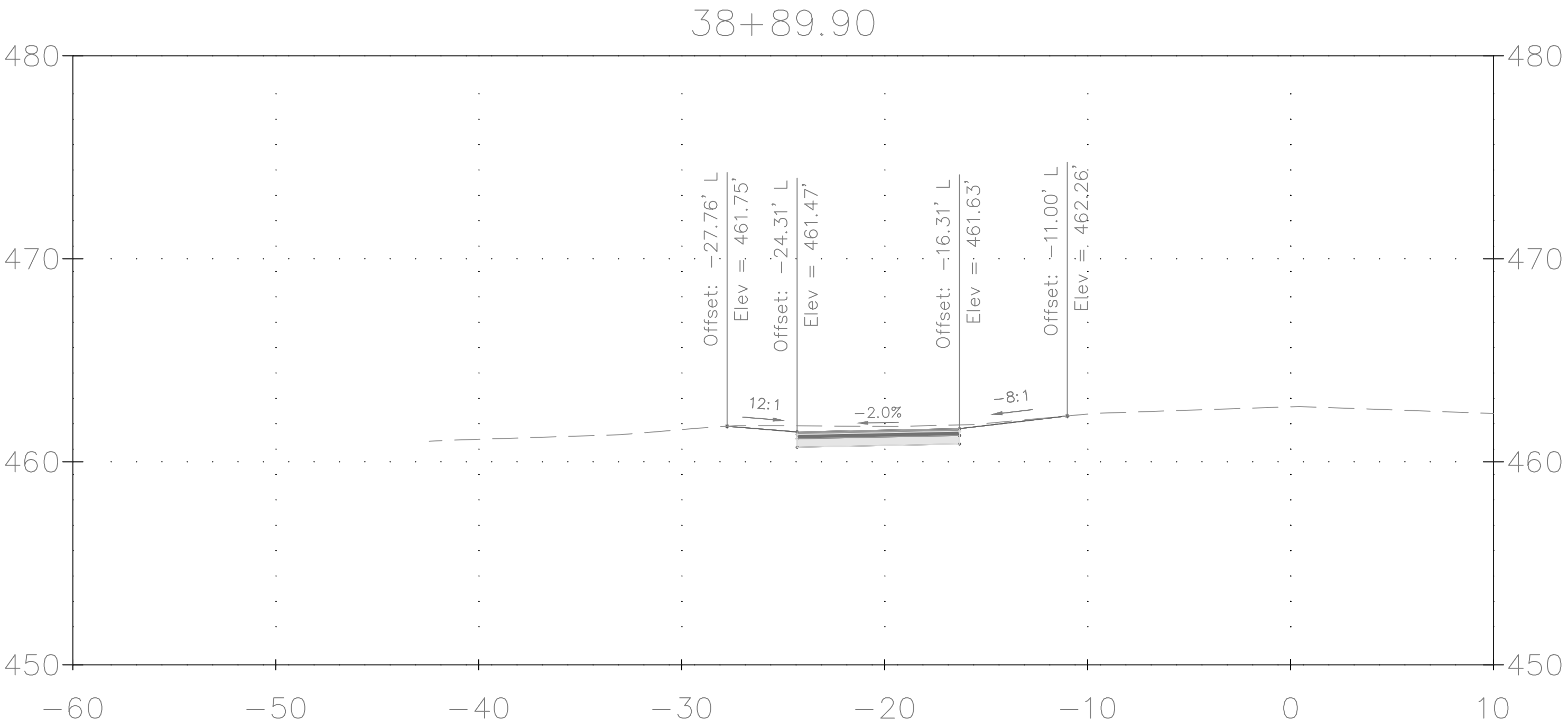
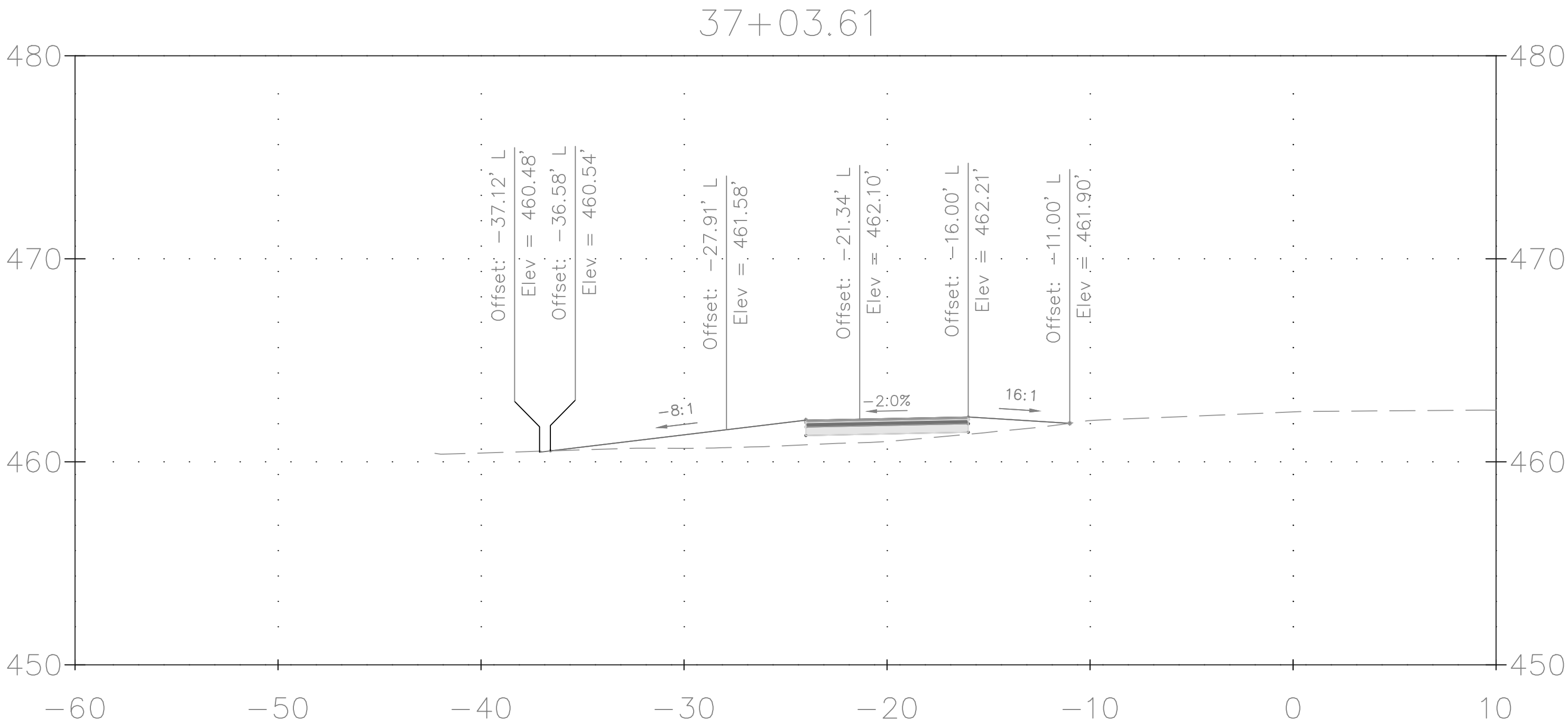
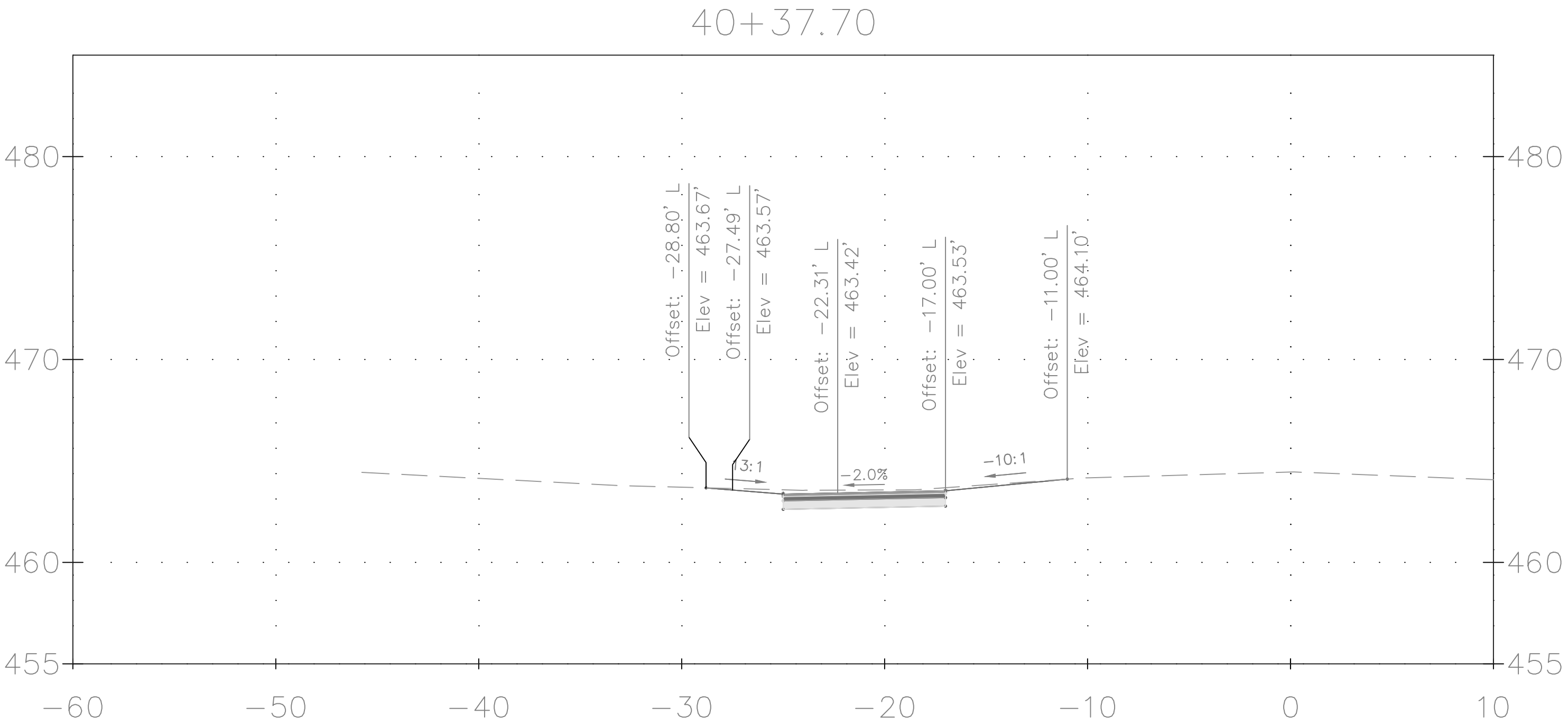
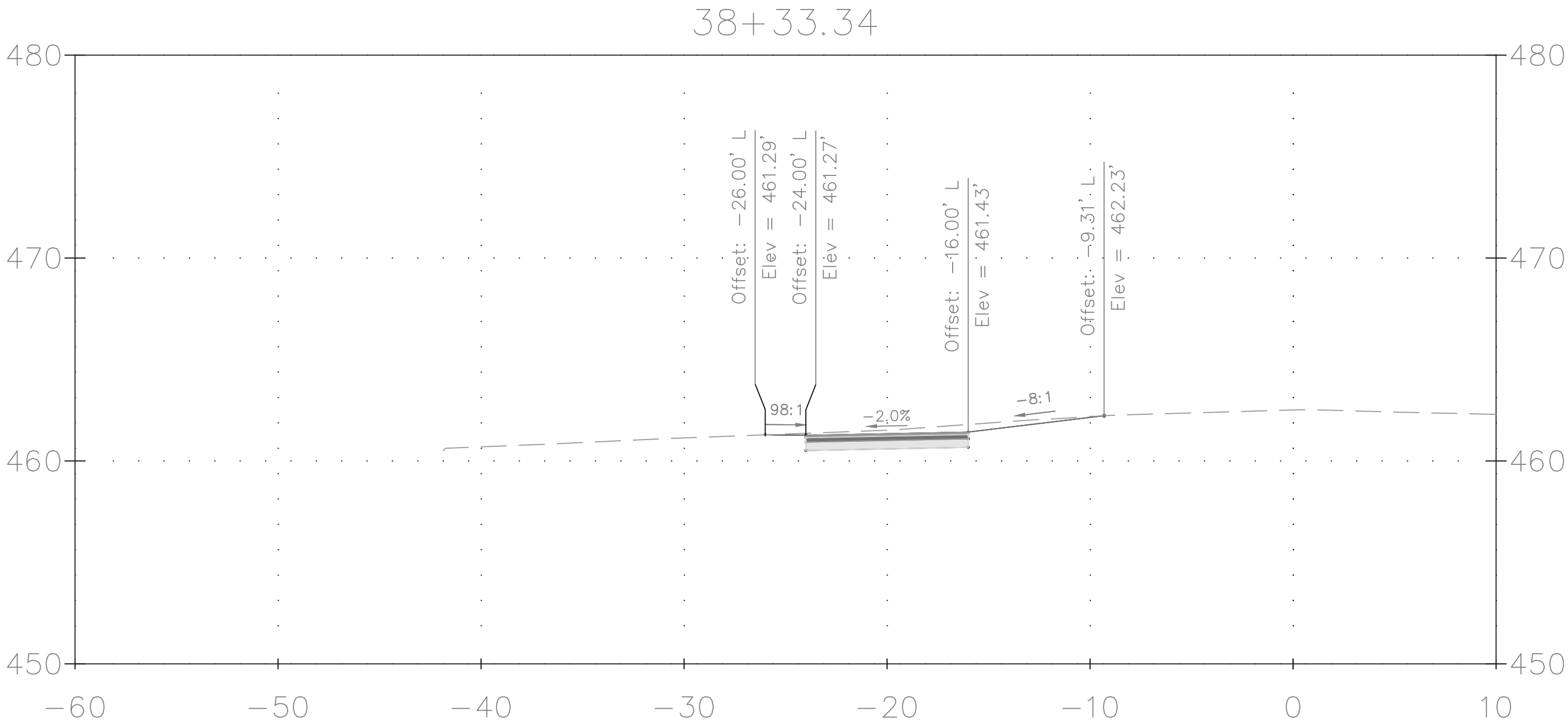
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<div></div>								<div>RECOMMENDED FOR APPROVAL</div> <div><div>Chief, Design Section APPROVED</div><div>Date</div></div> <div><div>Chief, Division of Transportation Engineering</div><div>Date</div></div>				<div><div><div>0</div><div>5'</div><div>10'</div></div><div>SCALE: 1"=5'</div></div> <div>DATE: NOVEMBER 2019</div>			
				<div>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></div>				<div>Project No.: <u>501902</u> SHEET <u>70</u> of <u>75</u></div>							
NO.	REVISION	DATE	BY												




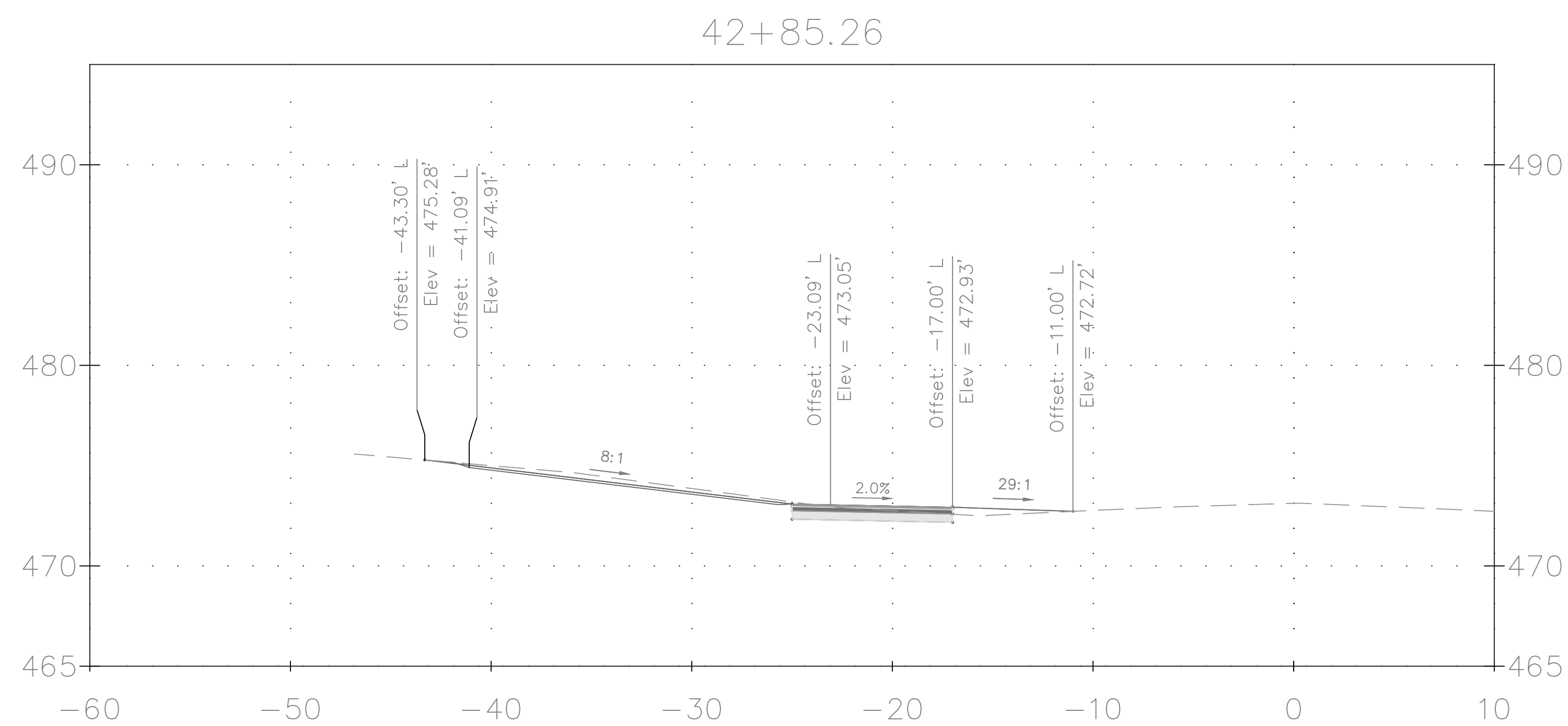
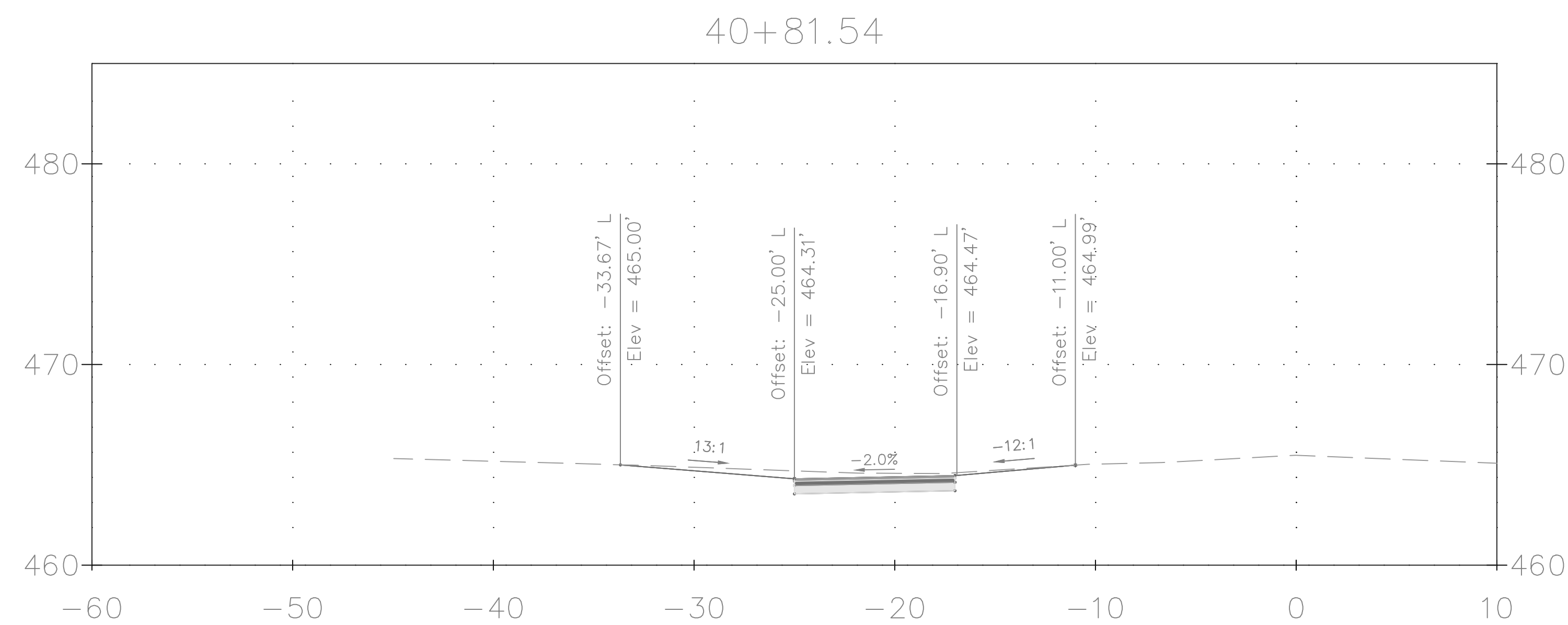
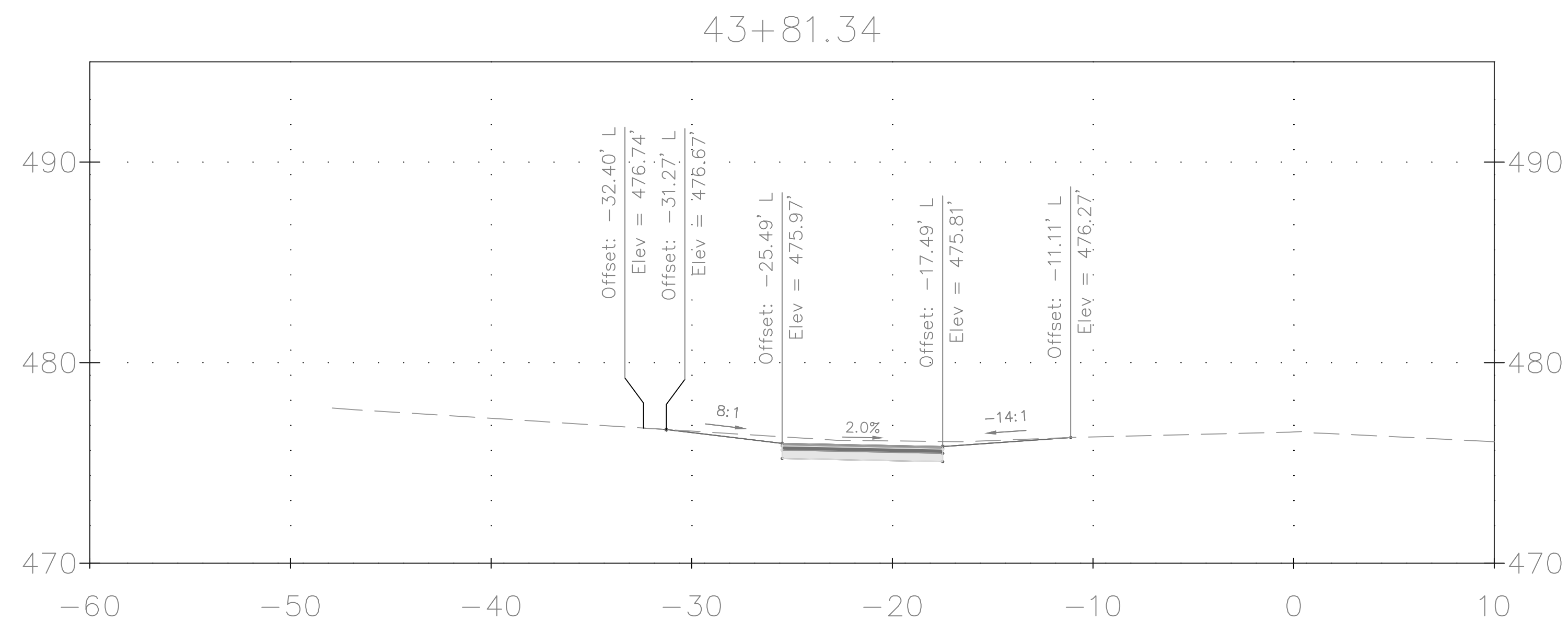
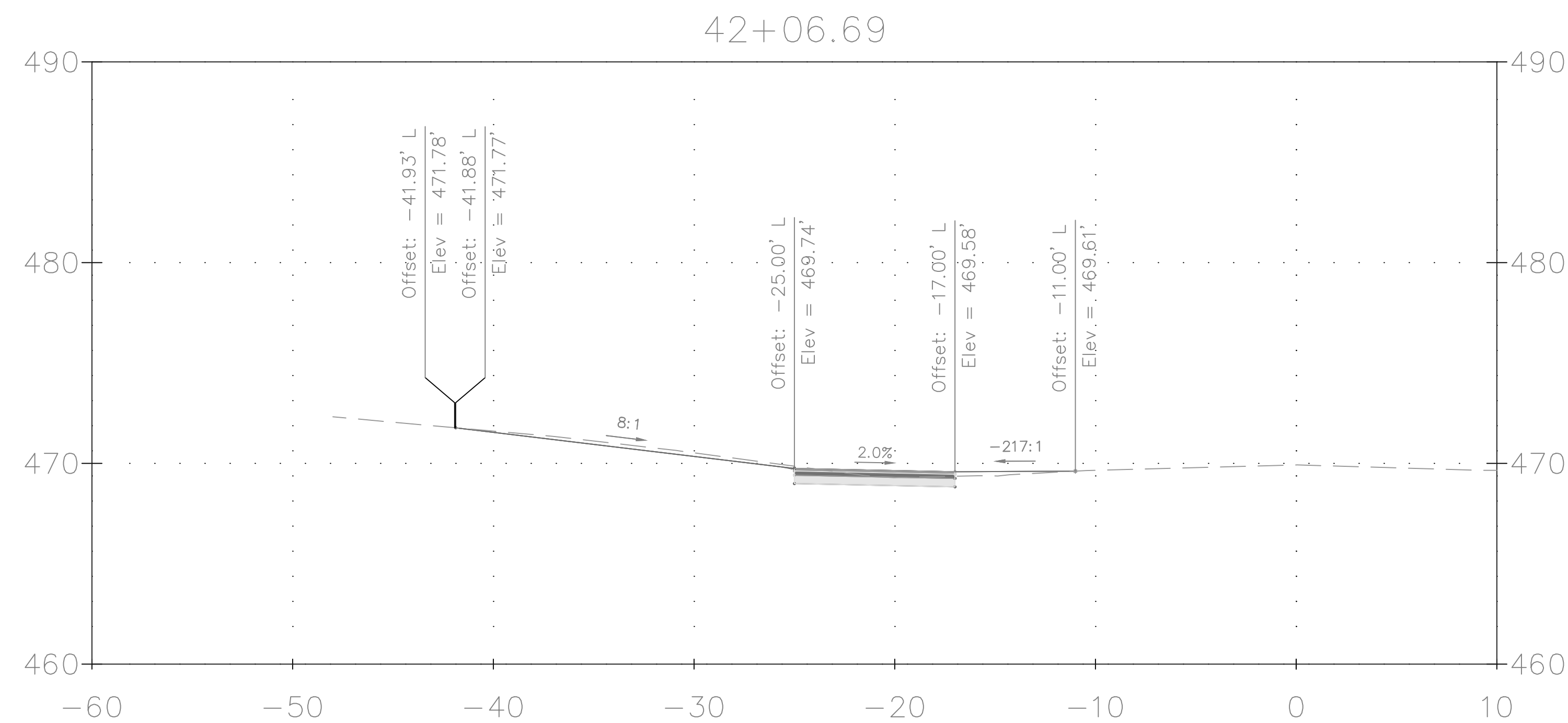
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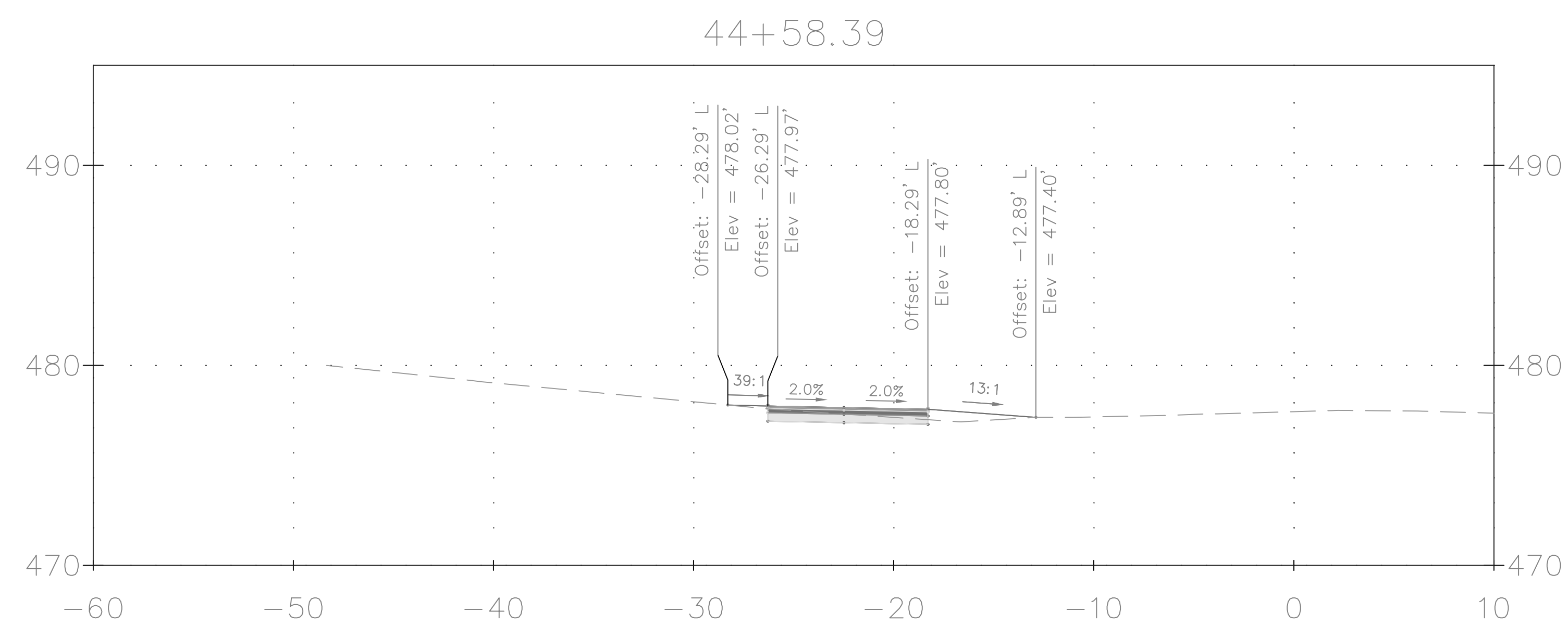
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					Chief, Design Section APPROVED		Date	
					Chief, Division of Transportation Engineering		Date	
NO.		REVISION		DATE	BY	Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u>		Project No.: <u>501902</u>
								SHEET <u>73</u> of <u>75</u>





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					RECOMMENDED FOR APPROVAL					
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					Chief, Division of Transportation Engineering		Date			
					Designed by: ADS		Drawn by: ADS			
					Checked by: JUR					
NO.		REVISION		DATE		BY		Project No. : 501902	SHEET 74 of 75	

DATE: NOVEMBER 2019

SCALE: 1"=5'



<p style="text-align: center;">DRAFT NOT FOR CONSTRUCTION</p> 					<p style="text-align: center;">MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>	<p style="text-align: center;">XS-28 DRIVEWAY CROSS SECTION</p> <p style="text-align: center;">GOOD HOPE ROAD SIDEWALK</p>  <p>0 5' 10'</p> <p>SCALE: 1"=5' DATE: NOVEMBER 2019</p>
	NO.	REVISION	DATE	BY	<p>Designed by: <u>ADS</u> Drawn by: <u>ADS</u> Checked by: <u>JJR</u></p>	<p>Project No. : <u>501902</u></p>
						<p>SHEET <u>75</u> of <u>75</u></p>